

Celebrating 50 Years as the University of Alberta's Alumni Publication

NEW TRAIL

SPRING 1994

Alumni Branches
Battling Viruses
Alumni Wall
of Recognition

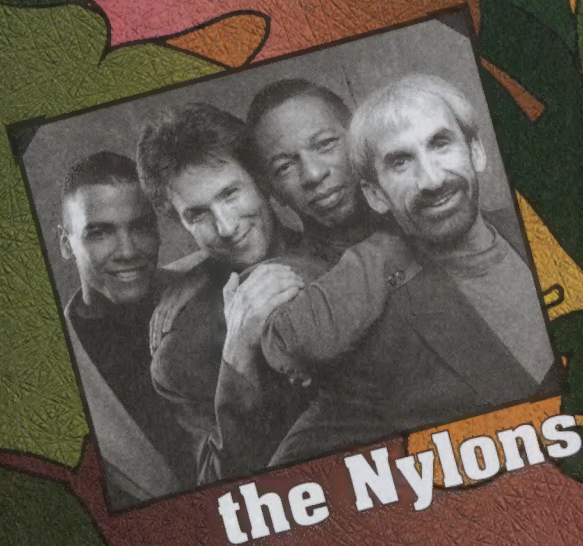
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Show your colours. Everyone is invited
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Reunion Weekend

UNIVERSITY OF ALBERTA
September 30, October 1 & 2 '94



the Nylons

Key Note Events:

We've planned an exciting weekend. Watch
for information about the following events:

Friday, September 30

- Student For A Day
- The Nylons in Concert and Welcome Reception

Saturday, October 1

- Information Centre - drop in for coffee at the Students' Union Building
- Campus Tours
- Super Saturday Lectures
- Faculty, School, Fraternity, Open Houses and Special Events
- Gala Dinner and Dance at the Westin Hotel

Sunday, October 2

- President's Brunch for 1924, 1934, and 1944 graduates at the Faculty Club

☐ Yes, I am planning to attend Reunion Weekend '94.

☐ I'd like the Office of Alumni Affairs to help me arrange a special reunion for (list your class, club, or group):

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Address:

City: Province: Postal Code:

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Year of Grad and Degree

Former Name if Applicable:

NEW TRAIL

This issue of *New Trail* is something of a mixed bag. On one hand we have the bad news — in response to the financial realities facing the University, the administration is recommending the closure of the dental school and a series of other restructuring measures, some of which will be painful.

The restructuring proposals were put forward by President Paul Davenport and his vice-presidents in a document released in early February (see page four). That document, entitled *Quality First*, was developed with a close eye to the University's recently-adopted strategic plan, *Degrees of Freedom*. Many of the measures are meeting favorable reaction, and indeed it's hard to argue with the need to make some major changes to the University to preserve quality at the institution.

All the same, it's sad to think that the Faculty of Dentistry, Western Canada's first dental school, may disappear from the campus in four years' time.

But there's also good news in this issue. We're pleased to bring you a couple of special reports related to Alumni Association activities. One involves the various alumni branches across Canada and around the world where U of A grads come together for fellowship and to offer support for their alma mater.

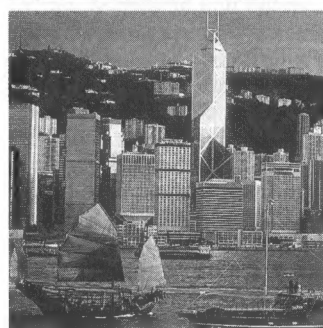
Another report focuses on the new Alumni Wall to which 16 distinguished alumni will be inducted shortly (perhaps even before you read this).

Some more good news is the fact that the Golden Bear Football team, which was to have been disbanded, has risen from the ashes once again and seems to be on solid ground for the next few years thanks to community and alumni support. And it's good to see that University faculty and students continue to collect a wide variety of awards and honors. As do alumni.

Personally, in the last while it has been a pleasure for me to work with some of the people involved with another good news story in this issue — the development of the new Glaxo Heritage Research Centre for Virology, which has been created with support from both industry and government. As I prepared the reports on the centre and its work I learned an awful lot about the fascinating world of viruses.

It was, I suppose, not altogether inappropriate that for almost the entire time I worked on the virology stories, I was being plagued by one of the stranger viral infections circulating around Edmonton this year, one that kept me slightly off-balance for weeks on end.

Rick Pilger
Editor



Cover: New York City is one of many centres around the world that have active branches of the University's Alumni Association. Our cover photo of the Big Apple was taken by Miles Ertman, a U of A graduate with a winning touch behind the camera (see page 20).

Battling Viruses 9

The Glaxo Heritage Research Institute is taking aim at viruses, in particular the viruses which are responsible for hepatitis B and AIDS.

For Fellowship and Support 16

In a variety of centres around the world, University of Alberta alumni come together to enjoy themselves and support their alma mater.

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Sixteen distinguished alumni are being inducted to a Wall created to inspire U of A students.

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Alumni Association**
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Restructuring Document Released

Proposals being put forward by the University's administration could result in major changes to the face of the University. These include closure of the Faculty of Dentistry, an extensive reorganization of the Faculty of Education and its BED program, consolidation of several academic units, and streamlining of some administrative services.

In announcing the proposals, President Paul Davenport stressed their relationship to the University's recently adopted strategic plan entitled *Degrees of Freedom*. "We are looking ahead to the long-term health of the University and trying to create conditions under which we can respond to the longer-term budget reductions in a manner that is consistent with *Degrees of Freedom*," said the president.

The proposals for change being put forward by President Davenport and the University's five vice-presidents are detailed in a restructuring document with the title *Quality First*. Released on 4 February 1994, it contains changes totalling an estimated \$12 million.

In introducing *Quality First*, the president acknowledged that the restructuring proposals have been shaped by the current climate of "severe budgetary restraint." However, in his remarks Davenport took pains to make it clear that the measures being recommended were not a response to the 11 per cent provincial grant reduction facing the University in 1994-95.

Other measures — early retirement incentives, negotiated compensation reductions, increased revenue generation, and the like — were being explored to cope with that reduction, he said. *Quality First*, he explained, addresses the challenges of the years beyond. "We make 15 proposals in the document," said the president, "and in each case we've asked ourselves, 'Will this further the objectives of *Degrees of Freedom*?'"

Degrees of Freedom, the University's strategic plan to the year 2005, was given approval by the University's Board of Governors in November, following wide input from the campus community. It establishes several strategic initiatives in support of the University's mission to "serve our community by the dissemination of knowledge through teaching and through the discovery of knowledge through research." It is a tenet of *Degrees of Freedom* that this mission will be carried out "in a select number of fields and professions, to be determined within the context of a province-wide educational system and based upon the highest national and international standards."

Addressing the budget implications of *Quality First*, President Davenport said, "Many of our proposals will result in a release of funds from their current uses, and those funds can either be reallocated for other purposes or taken by the central budget to reduce further budget cuts." He estimated that "over the coming years something like \$12 million will be released from current uses."

Closure of the Dental School

About one third of the funds released would result from closure of the University's dental school, which was the first in Western Canada when it was founded in 1917. While acknowledging the school's "long and proud history," the restructuring document says "Western Canada cannot now afford to support four dental schools; indeed all of them are finding it difficult to cope with fiscal restraint and a decreasing demand for dentists."

The calculations contained in the *Quality First* document show that on a per-student basis the Faculty of Dentistry is the most expensive on campus. Comparative figures show that in 1992-93 the cost per student in Dentistry was \$16,900. This compares to \$5,000 for Arts, \$6,300 for Science, \$12,600 for Medicine and a University-wide average



Despite its long and proud history, the University of Alberta dental school may be closed after the 1997-98 academic year.

of \$6,100. The contrast with Medicine is largely accounted for by the fact that Dentistry must fund its own clinical training facilities, while the medical school has access to clinical facilities in hospitals funded by the provincial department of health.

"Clinical training is expensive and an area in which [Dentistry] has provided valuable training and service over the years," states *Quality First*, but it argues that "the University can no longer carry this load on its own."

In addressing the proposal to close the dental school, the restructuring document states that "the Faculty of Dentistry is not seen as a national leader in research or graduate studies and only in a few areas has the Faculty carried on forefront research in recent years. A significant investment of additional operating and capital resources would be required to develop a Faculty of true distinction in research. In addition, the teaching and research activities are not vital to those of other Faculties on campus."

The administration proposal would see the last students accepted to Dentistry in 1994-95 and the Faculty closed after the 1997-98 academic year. In the interim the University would work with the Government of Alberta to see that

measures were in place to provide trained dentists and dental hygienists for Alberta. This could take the form of agreements with other provinces or special funding arrangements with Alberta students who would study out of province but agree to practise in Alberta.

Reorganization of Education

Next to Dentistry, the Faculty of Education is affected most by the proposals in *Quality First*. If instituted, the administration's recommendations would see the current BED program replaced by a two-year program that students would enter after two years of studies in Arts or Sciences. In addition, it is recommended that the Faculty develop a concentrated BED program that students who held BA or BSc degrees could complete in one calendar year.

The administration suggests that changing the entry point for the BED program to the third year of university study — something the Faculty has been considering — would put students enrolled in transfer programs at Alberta colleges on an equal footing with U of A students when seeking entry to the BED program.

Quality First also calls for the Education Faculty to become more selective in the graduate degree programs it offers,

continuing those programs with the strongest scholarly base, those in which there is the strongest student interest, and those from which graduates are most in demand.

The proposed changes to Education would be accompanied by a sizeable budget reduction. The Faculty's budget would be trimmed by \$5 million over a period of three years beginning in 1994-95.

Consolidation of Academic Units

Quality First envisions fewer academic units across campus. It suggests that "these units will be larger in size and more interdisciplinary in scope, thus providing new and innovative teaching and research programs that are responsive to the changing world in which we live."

In keeping with this vision, it proposes that the various Arts Faculty departments involved in teaching contemporary languages be consolidated into a single department of modern languages. Similarly, it recommends that the Department of Religious Studies be amalgamated with the Department of Comparative Literature and Film Studies to create a department for comparative cultural studies.

Consolidation within the Faculty of Science is also being recommended. It is proposed that the Departments of Zoology, Botany, Entomology (formerly part of the Faculty of Agriculture and Forestry), Genetics, and Microbiology be brought together to form a single department of biological sciences. Another merger would bring together the Department of Mathematics and the Department of Statistics and Applied Probability.

Restructuring and realignment to reduce the number of separate academic units within the Faculty of Medicine is also called for. While the administration doesn't propose specific mergers, leaving details to the Faculty, it recommends Medicine be required to realize operating budget savings of \$200,000 through consolidation measures.

Quality First also calls for

operating budget savings of \$200,000 through increased cooperation among the smaller faculties involved in aspects of health promotion and wellness studies. In order to develop "the most outstanding programs in selected areas of the health sciences in the country," the Faculties of Nursing, Pharmacy and Pharmaceutical Sciences, Rehabilitation Medicine, and Physical Education and Recreation are asked to collaborate upon a strategy for eliminating redundancies and achieving better interaction in teaching and research.

Faculties are also asked to cooperate in the restructuring of graduate programs in administrative studies. *Quality First* proposes that such programs now being offered in the Faculties of Education, Physical Education and Recreation, and Medicine be modified in cooperation with the Faculty of Business to create joint master's degree programs that include a common core curriculum similar to the first year of the MBA program. It is also recommended that the master's degree program in Health Services Administration be relocated from the Faculty of Medicine to the Faculty of Business, with provision for mechanisms that adequately link the two Faculties for this program.

Other Measures

Also noteworthy within *Quality First* is the recommendation that faculty members with continuing appointments no longer be paid extra for teaching spring and summer and other Special Sessions courses. It is also proposed that the Department of Athletics, which is responsible for intercollegiate athletics and for campus sport and recreation programs, cease to exist as an academic unit and become a cost-recovery unit with its own budget within the Faculty of Physical Education and Recreation.

Savings are also being sought from service areas on campus. Through various consolidations and restructuring measures, including abol-

ishing the position of associate vice-president (facilities) and new approaches to the way the University organizes and operates its physical assets, annual savings of more than \$1 million are expected.

Quality First also recommends a wide examination of alternative ways of meeting the campus's energy needs.

Implementation

While some of the *Quality First* proposals are administrative changes that can be instituted almost immediately, most of the proposed changes will be thoroughly debated in the University's governing bodies and final approval will be in the hands of the University's Board of Governors.

The Governors' interim chair, Sandy Mactaggart, calls the administration's *Quality First* document a painful and bold initiative aimed at maintaining excellence on campus.

"I am sure that the proposals were not arrived at easily and I am equally sure they will not be approved easily, but I also believe that delaying them further would have had negative consequences for students, faculty and staff," said Mactaggart in an interview shortly after he received the proposals.

Mactaggart, who is also the University's chancellor, said he was pleased that the administration had chosen the title *Quality First* for the restructuring document. "If each of us embraces that principle, I have no doubt we can emerge from these changes with confidence," said the interim Board chair. "As I have said on other occasions, I believe that adversity brings out hidden strengths. I believe that this University is filled with exceptional people who, through these difficult times, will prove how exceptional they are."

Closing of V-P's Office Recommended

University of Alberta president Paul Davenport is recommending to the University's Board of Governors that the Office of the Vice-President (Student and Academic Services) be closed.

In a letter to the campus dated 4 February 1994, the same day the *Quality First* document was released, President Davenport details the reasons for the closure of the office headed by Dr Lois Stanford, the first woman to hold a vice-presidency at the

University when she was appointed to the student and academic services portfolio by Davenport in 1990.

In his letter, the president says that he is making the recommendation for budgetary reasons and "despite Dr Stanford's remarkable achievements during her four years in the position."

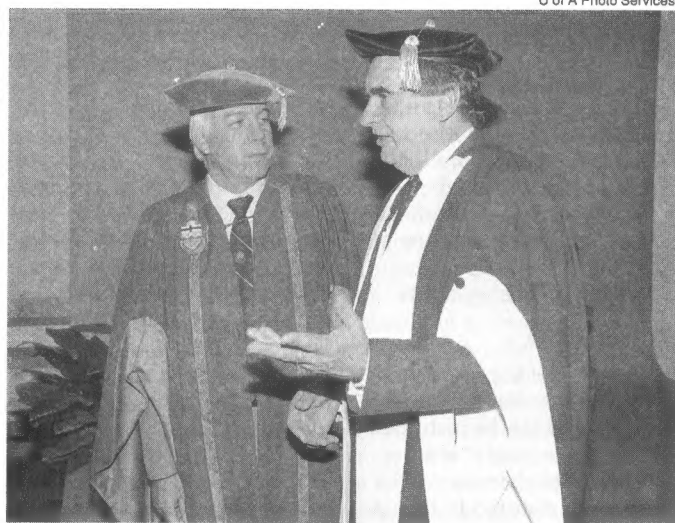
The student and academic services vice-presidency held by Stanford is one of the largest at the University, encompassing the Library, Registrar's Office, Computing and Network Services, Dean of Students, the



V-P Stanford

University Press, Housing and Food Services, Museums and Collections Services, the Office of Human Rights, and Campus Security Services.

In addressing the question of why he is recommending closure of the vice-president's office that deals with such a wide range of issues crucial to students, faculty, and staff, Davenport said "The answer is apparent to all in our community struggling to meet the unprecedented budget cuts we face over the next three years; given our budgetary problems, we must reduce the costs of all administration, including the most senior administration. No sector of the University can appear to be exempt from the tough choices we must take to protect academic excellence in the midst of shrinking resources."



▲ **Don Mazankowski**, [right] former deputy prime minister of Canada, chats with President Davenport after receiving an honorary degree on 20 November as part of the University's Fall Convocation 1993. The former deputy prime minister told graduates that intellectual capital is the most important part of the new world economy, and if it is to succeed in the global economy, Canada must develop and nurture such capital. Also receiving honorary degrees at Fall Convocation were Yukio Kobayashi, president of Taiho Pharmaceutical Company Ltd. of Japan and chair of Taiho Alberta, and **Walter Kaasa**, '51 BEd, who was instrumental in the development of provincial cultural programs during 26 years with Alberta Culture.

Football Bears to Play On

Thanks to private supporters, the University will continue to field a football team. The announcement was made jointly by chancellor and interim Board of Governors chair Sandy Mactaggart and President Paul Davenport on 16 February 1994.

In their joint statement they said, "The University of Alberta owes an extreme debt of gratitude to the Edmonton community for the moral and financial support that has been shown for Golden Bears Football. Corporations, alumni, fans, students, and the media all worked together to make the reinstatement of the program possible."

In order to save the team, the Department of Athletics met various requirements set out by University administration. These included: a commitment from the Golden Bears Football Alumni of \$50,000 a year for each of three

years; a guarantee of the Alumni's commitment; and signed pledge forms which provide for \$25,000 per year support for five years from the "Friends of the Golden Bears."

It was also announced that the Brick Warehouse Corporation of Edmonton has guaranteed the Alumni's fundraising commitment.

Tom Wilkinson has been retained on contract to continue as the team's head coach and will also act as a corporate fundraiser for the team and other athletic programs.

Tenure Discussion Paper Being Written

The Board of Governors has asked the University's administration to prepare a discussion paper on tenure by the end of April 1994.

The motion, made at the Board's November 1993 meeting, asks the administration to discuss the possibility of having the Board approve tenure appointments, to outline the

Around and About

■ **White Buick**, a collection of short stories by Greg Hollingshead of the U of A's Department of English, is on the short list for the Commonwealth Writers Prize in the Caribbean and Canada region.

■ The first non-American citizen ever elected to the board of directors of the T.S. Eliot Society is University of Alberta English professor Shyamal Bagchee.

■ U of A professor emeritus of chemistry Paul Kebarle has been awarded the Frank H. Field and Joe L. Franklin Award for Outstanding Achievement in Mass Spectrometry. In presenting the honor, the American Chemical Society said that Kebarle has "revolutionized the qualitative and quantitative thinking of chemists who deal with ions."

■ A U of A faculty member in Elementary Education, **Jan Vallance**, '89 PhD, is the 1993 recipient of the Canadian Association for Health Physical Education and Recreation's most prestigious award, the R. Tait McKenzie Award of Honour.

■ Chris Janssen, a professor in the Business Faculty's Finance and Management Science Department, travelled to Stockholm late last year to accept an honorary doctor of technology degree from Sweden's Royal Institute of Technology.

■ University professor emeritus Leslie Green has been installed as a member of the Order of Canada. Green's citation notes that "his numerous works on legal issues related to war, armed conflict, terrorism or crimes against humanity have influenced the formation of Canadian policy in these areas."

■ Murray Gray, the former chair of the U of A Department of Chemical Engineering, is the new dean of the University's Faculty of Graduate Studies and Research.

■ U of A graduates finished one-two in Alberta on the 1993 Uniform Final Examinations written by Canadian accounting students. **Michael Arends**, '92 BCom, who now works for KPMG Peat Marwick in Edmonton, finished first in Alberta and

fourth in Canada. **Christopher Spencer**, '89 BCom, who works for Coopers and Lybrand in Edmonton, finished second in Alberta and 18th nationally.

■ Early this year, the University community was saddened to learn that Iain Stuart, professor emeritus of applied science in medicine, had passed away in Dublin, Ireland. Stuart came to the University in 1968 to head what became the Department of Linguistics and retired in 1992.

■ U of A forest science professor Peter Murphy, who currently serves as president of the Canadian Institute of Forestry, was elected to an additional office recently. He is the new president of the Forest History Society, founded in 1946 and affiliated with Duke University in Durham, North Carolina.

■ Doris Badir, professor emerita and former dean of the Faculty of Home Economics, has received an International Year of the Family patron award for her work promoting IYF during her recent term as president of the International Federation of

Home Economics.

■ Professor emeritus of music Violet Archer was named a Woman of the Year for 1993 by the American Biographical Institute and an International Woman of the Year by the International Biographical Centre of Cambridge, England.

■ Four University of Alberta chemical engineering students took top honors in a plant design competition held in conjunction with the Canadian Chemical Engineering Conference held in Ottawa late last year. David Scott, Nancy Irwin, Randy Miller and Shaffiq Jaffer designed a chlor-alkali plant with no liquid waste or toxic gas emissions and captured first place in the SNC-LAVLIN plant design competition.

■ The University's new dean of students is James Newton. The former chair of the Department of Accounting and Management Information Systems in the Faculty of Business, Newton has been appointed to his new office for a five-year term that commenced 1 January 1994.

present approval process, and to provide information about how tenure is handled at other universities.

The Board expects to review the discussion paper at its May 1994 meeting and Board approval of tenure appointments could be considered at the June 1994 Board meeting.

When the Board motion was discussed at General Faculties Council, the University's senior academic body, the GFC representative to the Board, Department of Mathematics chair **Ron Bercov, '59 BSc**, said the motion is an indication that some Board members believe the Board should be more involved in tenure matters. "I think there's an acceptance that we will have tenure but a wish on the part of some members of the Board to be centrally involved on questions related to tenure."

John McDonald, University vice-president (academic), told GFC he had spent a great deal of time last year working with the Board and its human resources and academic affairs committees reviewing material on tenure and how it works at the U of A.

At the outset of the discussions, many of the Board's public members felt tenure was probably not a good idea and should probably go, said

the vice-president. "By the time the Board actually voted on tenure, they passed a series of motions that actually reaffirms the notion that tenure is valuable," said McDonald.

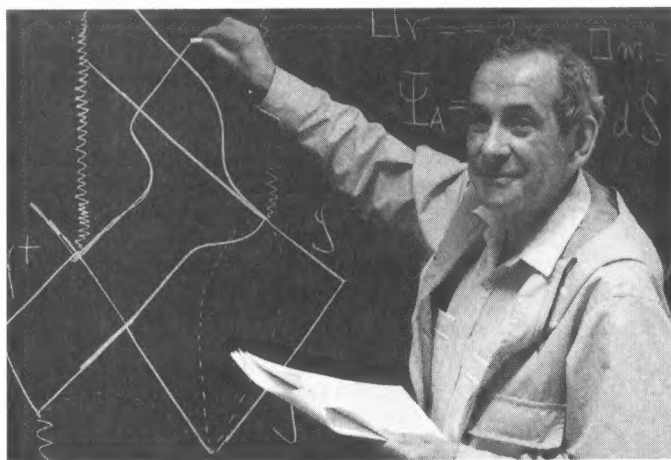
He said the critical issue for Board members had been whether or not tenure gave some faculty members job security no matter how poorly they were doing their jobs, but suggested the concern has now shifted to protecting the University's ability to meet future financial difficulties.

He said that the discussion paper must deal with "the process we have in place for determining how many tenurable positions we have on campus and address the question of whether we need to have tenurable positions reduced or controlled in some way that's better than we do now."

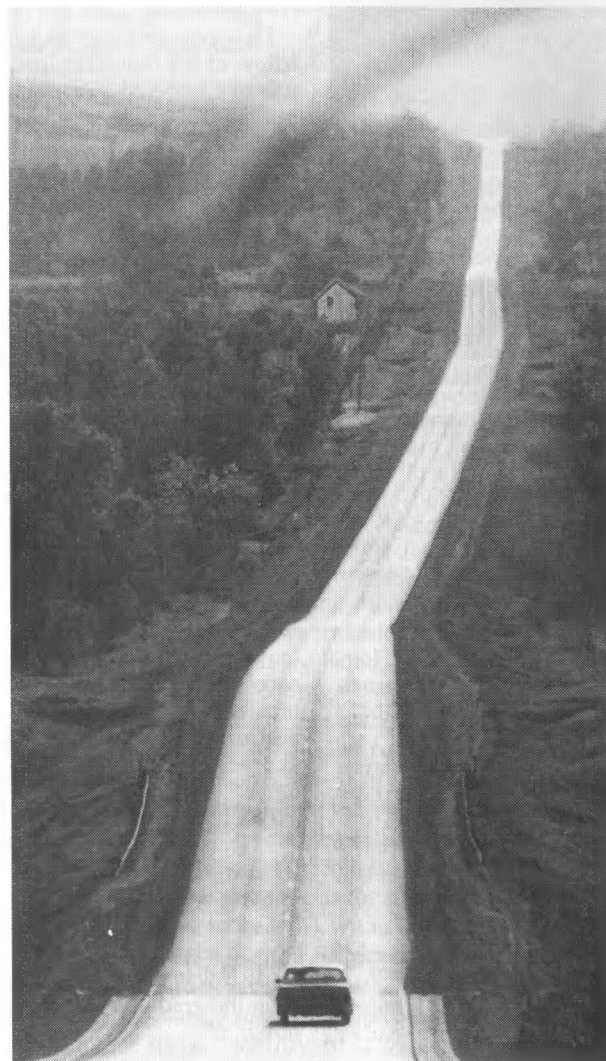
Grad to Receive Business Award

The chairman of the board of NOVA Corporation of Alberta, **Richard Haskayne, '56 BCom**, will receive the 1994 Canadian Business Leader Award.

The award, which has been presented by the University of Alberta Faculty of Business since 1982, recognizes outstanding achievements and celebrates the business acumen



▲ **University Professor of Physics Werner Israel** [above] is one of three Edmontonians with strong ties to the University recently appointed to the Order of Canada. An acclaimed cosmologist, Israel has taught at the University since 1958. Also appointed to the Order were former U of A chancellor **Louis Desrochers, '52 LLB, '78 LLD (Honorary)**, and **Sandy Pearson, '92 LLD (Honorary)**, who served on the University's Board of Governors for six years and is a longtime supporter of the institution.



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Business Leader Haskayne

of Canadian businesspeople.

Haskayne began his distinguished career in the oil and gas industry with Hudson's Bay Oil and Gas Company, which he joined in 1960. He became the company's president in 1980, and before he joined NOVA in 1991, he had held similar positions at Home Oil Company Ltd., Interprovincial Pipe Line Ltd., and Interhome Energy Inc.

A native Albertan, Haskayne chairs the Board of Governors at the University of Calgary and sits as a director on the corporate boards of TransAlta Utilities Corporation, the Canadian Imperial Bank of Commerce, Manulife Financial, and Fording Coal Ltd. He has also been a member of the Conference Board of Canada

and of the Canadian economic policy committee of the C.D. Howe Institute.

Haskayne was elected a fellow of the Canadian Institute of Chartered Accountants in 1985. He will receive his Business Leader Award on 21 March 1994.

Inaugural Award to Nursing Professor

The first recipient of the Nursing Graduate Students' Association "Academic Excellence Teaching Award" is Ruth Elliott (Geddes), '55 Dip(Nu), '56 BSc(Nu).

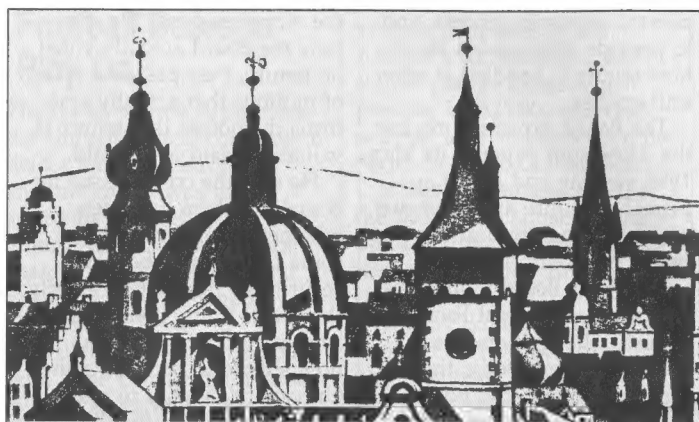
The new award recognizes "excellence in graduate level teaching and nursing education as judged by a committee of NGSA members." In announcing the award, the NGSA expressed the hope that the award will be "a source of pride for University of Alberta faculty as the award comes unsolicited from appreciative graduate students."

Elliott, who graduated in 1956 from the first experimental four-year baccalaureate in nursing program, certainly feels that way. The award, she says, is a special honor "because it was generated solely from the graduate students in nursing."

U of A Public Affairs



▲U of A students have won two of the three Rhodes Scholarships recently awarded in the three Prairie Provinces. The scholarships went to political science student Jasmine El-Nahhas, president of the World University of Canada student refugee support committee; and Randy Boissonault, the 1992 SU president, who is completing a BA (*etudes canadiennes*) program.



1994 Discovery Adventures

University of Alberta Alumni Association

Marco Polo Passage

\$6180

May 13 to May 30

Sail with the Marco Polo in its inaugural year to ports in Malaysia, Vietnam, and China. On this deluxe 18-day adventure you will experience the stunning sunsets over the South China Sea, walk on the Great Wall, visit Ho Chi Minh City, where Vietnamese craftsmen have produced masterpieces for centuries, and much more.

Journey of the Czars

\$5134

June 21 to July 4

From Moscow to St. Petersburg, cruise the beautiful waterways of Russia. Sail by small villages and tiny farms that fill the Russian landscape with rustic beauty, and explore such architectural and artistic wonders as St. Basil's Cathedral and the Hermitage. For your educational enjoyment, a guest lecturer specializing in Russian Culture and history will accompany the tour.

Danube River

\$4308

August 8 to August 20

Explore the waters that gave life to civilization. Cruise past historic villages, taste the food and absorb the rich cultures of four countries — Germany, Austria, the Slovak Republic and Hungary. From your "home" base, the privately-chartered *M S Ukraina*, follow the course set by the flow of the water and watch the drama unfold around every bend.

Italy's Historic Cities and Countryside

\$4969

September 7 to 18

Take a scenic journey through Italy's legendary cities and quaint rural hillside towns. A creative itinerary takes you to the great cities of Rome, Assisi, Florence and Venice to feast on the sites of the Vatican, Sistine Chapel, and the Canals of Venice. Interwoven throughout this tour is an intimate look at the beautiful and tranquil countryside of the sun-kissed land.

China/Yangtze River

\$6259

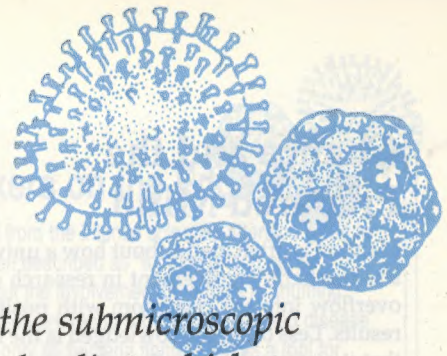
September 16 to October 2

With comfort and convenience, you can enjoy the very best sites of the People's Republic of China. You will visit Beijing's Forbidden City, walk on the Great Wall, discover imperial tombs, sail the Yangtze River, featuring the wild beauty of the three gorges, and experience the ever-changing spectacle of Hong Kong — the shopping centre of the world.

For more information about these exciting travel opportunities, contact Coleen Graham in the Office of Alumni Affairs. In Edmonton phone 492-3224. Toll-free in Canada: 1-800-661-2593.

Prices shown may be subject to change and are the lowest available from Edmonton, based on a per-person, double-occupancy rate.

Battling Viruses



The Glaxo Heritage Research Institute joins the war against the submicroscopic invaders that cause diseases ranging from AIDS, hepatitis and polio to chicken pox

Stories by Rick Pilger

The Heritage Medical Research Centre at the University of Alberta is a building unlike any other on a campus known for its diverse architecture. Visible through the Centre's glass shell are the many pipes and ducts that are the building's veins, arteries, nerves and entrails.

Somehow, this baring of its vitals to outside view gives the structure an air of mystery — an effect not at all inappropriate, for within the building's walls researchers daily delve into mysterious worlds.

Among these white-coated explorers is a new research group located on the building's sixth floor, a group dedicated to investigating the submicroscopic world of viruses.

The Glaxo Heritage Research Institute for Virology opened its doors early in 1993, but workmen have just recently turned over a vital component of the Institute — a specially designed laboratory for experimental work with dangerous viruses, including the virus responsible for AIDS.

Director of the Research Institute is Dr Lorne Tyrrell, chair of the University's Department of Medical Microbiology and Infectious Diseases. Five years ago, Tyrrell's promising work towards a treatment for hepatitis B won support from Glaxo Canada Inc., which contributed \$1.5 million to that work over an initial three-year period. That support has since been extended and has led to the world's first antiviral treatment for hepatitis B. (This treatment is now undergoing clinical tests and, if all goes well, will be on the market in about three years.)

The Glaxo Heritage Institute is largely a result of that successful collaboration. It was created in October 1992 with \$1.2 million in start-up capital, of which \$800,000

came from Glaxo Canada. The University of Alberta Hospitals Foundation and the Alberta government provided \$200,000 each.

Glaxo Canada is also providing operating funding. The company, based in Mississauga, Ontario, currently provides funding of \$550,000 per year and has earmarked up to \$15 million to support the Institute's research program during its first 10 years.

The Alberta Heritage Foundation for Medical Research is also providing continuing support, having helped recruit the two scientists, Dr John Elliott and Dr Lung-Ji Chang, who have joined Tyrrell as the Institute's principal researchers.

Elliott, a U of A graduate with expertise in gene cloning, joined the Institute soon after its inception. Chang, a promising AIDS researcher, left the U.S. National Institutes of Health to join the Institute in September 1993. Both received establishment grants from the AHFMR and are AHFMR Heritage Medical Scholars.

When the Institute reaches its full staff complement there will be another three

dozen associates working with the principal researchers, and pains are being taken to ensure close working relationships. From its physical layout to its day-to-day routines — including regular discussion times and weekly journal club meetings — the Institute has been designed to maximize interaction between the different research teams.

"All of us are getting very familiar with what each other is doing," says Tyrrell. "We're much closer to the research now that we work in a group, and I am quite encouraged with what I've seen since September when Dr Chang joined us."

Chang, in particular, will benefit from completion of the Institute's facility for working with dangerous viruses. "It's as nice a Level III laboratory as you'll find," says Tyrrell. (A Level III laboratory is one that meets the strictest national standards for work with dangerous viruses. Sophisticated filtration and sterilization procedures and a negative air-pressure environment help ensure that there is no possibility of a virus escaping from the laboratory.)

With the completion of the Level III laboratory, it's now full-steam-ahead for Tyrrell's group and he is confident that the success of the hepatitis B work will carry over to the fight against AIDS.

"I think it's possible we will have an impact on AIDS in the next few years," he predicts. "That's a rather bold statement because it is a tough disease and there are a lot of problems ahead, but I believe that this unit will be competitive with any unit in the world. Certainly, with hepatitis we are as advanced as any unit in the world. And in AIDS we are now competitive with many of the good units."



Glaxo Heritage Institute principal researchers Chang, Elliott and Tyrrell [left to right] have begun getting familiar with each other's work.

Chance and the Prepared Mind

Mention is often made about how a university teacher's involvement in research can overflow into the classroom with positive results. Less often acknowledged is the fact that it also can happen the other way.

Lorne Tyrrell, '64 BSc, '68 MD, has played a leading role in the development of the world's first drug for treatment of hepatitis B, a global health scourge of major proportions. He's also overseen the creation of the University of Alberta's new Glaxo Heritage Research Institute for Virology, which largely results from the research capability his research has fostered.

And it all began in the classroom.

Tyrrell is as busy a man as you're likely to meet. Besides his research program, he juggles an active clinical practice in infectious diseases and duties as chair of the Faculty of Medicine's Department of Medical Microbiology and Infectious Diseases. And he spends a considerable amount of time in the classroom — as much as any other department chair on campus.

In 1985-86 Tyrrell taught part of a new graduate course in virology. "One of the things I was assigned to teach was the hepatitis viruses," he says, recalling how his attention was caught by scientific papers published that year providing new information about how the hepatitis B virus was replicated.

"Through the teaching I became very familiar with the replication pathways and felt there should be ways to inhibit this virus selectively," says Tyrrell. He shared his conviction with a cross-campus colleague, Dr Morris Robins.

Robins, then a U of A chemistry professor and now a faculty member at Brigham Young University in Utah, specializes in the synthesis of nucleoside compounds. He could see what Tyrrell was talking about. "Morris got as excited as I did when he saw the pathways," says Tyrrell.

The two, who continue to collaborate despite Robins's relocation, went to work to find an antiviral agent to thwart the troublesome virus, which afflicts thousands of people in Canada and is a major health problem in the Third World. The research they initiated has led to a compound with the antiviral properties they were looking for, and the world's first hepatitis B drug is now making its way through clinical trials — two to three years away from pharmacy shelves, estimates Tyrrell.

"Chance," said Louis Pasteur, "favors the prepared mind." Those words could be used to summarize Tyrrell's career. "My



As a practising physician, Tyrrell knew hepatitis B sufferers as more than just statistics when he began his research.

whole career in medicine happened in some ways by accident, and in some ways by design," he says.

Tyrrell, who grew up on a farm in the Duffield area west of Edmonton, enrolled in the U of A in the fall of 1961. He planned to enter medical school in his third year, but in the preceding summer his father bought a bulldozer and obtained a contract to build a road for a local Indian band. Tyrrell had to help out and by the time he got back to campus it was too late for medical school. Instead he finished a degree in chemistry.

Looking back, Tyrrell sees that road-building experience as pivotal in his career. "I had never built a road and here I was at 8:00 in the morning sitting on a Cat, not knowing where to start. In my nervousness I ate all my lunch. Then I started pushing the road and it was a real challenge. When one of the tracks came off, I had to jack up the cat for a whole day, and somehow get the track onto the sprockets. I learned to solve problems that seem insurmountable. After a week it really began to look like a nice road."

When he did enter medical school, Tyrrell's extra work in chemistry helped him win a Life Insurance Fellowship. The fellowship provided funding for a combined MD-PhD program, and once he had earned his medical degree and completed his internship, Tyrrell headed east to Queen's University for PhD studies. "Even in those early days I was fascinated with molecular biology," recalls Tyrrell.

He was also intrigued by viruses and the challenge that these "intracellular parasites" represented. "In my medical schooling, I can remember that when we talked about antiviral agents, we were told it would be very difficult to get a good antiviral agent because anything you did to inhibit the virus

would be too toxic to the cell," he says.

The breakthrough came in 1978, the year that Tyrrell came back to Edmonton, having studied virology in Stockholm as a Medical Research Council Centennial Fellow. The breakthrough was the discovery of acyclovir for the treatment for certain viruses of the herpes family—including the virus responsible for cold sores, genital herpes and chicken pox. Selective, non-toxic and effective, acyclovir worked by attacking an enzyme specific to the virus.

For the first time, medicine had a weapon other than vaccination to selectively fight viral infection. But viruses have proven to be tricky targets, and one of the more elusive has been the hepatitis B strain. "This disease is a big problem world-wide," explains Tyrrell. "There are an estimated 300 million people who carry the virus and a million of them will go on each year to develop cancer of the liver resulting from chronic liver infection. Others will develop cirrhosis of the liver."

The hepatitis B virus strain wasn't discovered until the 1960s, and a vaccine was developed late in the following decade. But a vaccine can't help those already infected, and hepatitis B spreads quickly—it's passed on in much the same way as the AIDS virus but spreads much more readily.

While the onset of hepatitis B infection can involve severe symptoms, including a characteristic jaundice, most adults who contract the virus are not greatly bothered by it. They have a bout of flu-like illness and then recover. However, somewhere between five and 10 per cent of those infected become chronic carriers. It is these people who are at greatly increased risk for liver cancer and cirrhosis of the liver.

What makes hepatitis B an even greater health problem is the fact that it easily passes from mother to child at birth and the odds faced by the infected infants are not good. Ninety per cent of these children become chronic carriers. The boys face a 50 per cent chance of succumbing to liver disease, usually in their 30s or 40s. For girls the risk is 15 per cent.

Tyrrell knew these statistics when he and Robins began their research. However, as a practicing clinician he knew hepatitis sufferers not only as statistics. They had the faces of his patients, and that gave an added dimension to the work.

An early stumbling block for the U of A

researchers was creating a cell-culture system for testing likely compounds. "The problem in developing anti-viral therapy for hepatitis B is that nobody had a way of growing the virus in cell lines. Even today it's not an easy task to infect a cell with hepatitis B," says Tyrrell.

There are two good animal models for hepatitis B infection. The eastern woodchuck is victim to a closely-related form of hepatitis, but in the woodchuck the infection rapidly progresses to fatal liver cancer. Ducks, on the other hand, are prey to a virus from the same family but survive without damage from the chronic infection.

Clearly, the duck virus — which is not infectious to humans — showed the most promise. To learn how to culture duck liver cells, Tyrrell sent Dr Satoru Suzuki, then working in his laboratory as an AFHMR post-doctoral fellow, to Philadelphia to work with Dr Jesse Summers, who had pioneered the procedure.

Once Suzuki had returned, Tyrrell and Robins began testing compounds, their initial work funded by an AHMFR technology-transfer grant. By 1988 the U of A researchers had isolated a class of compounds that showed strong anti-viral capability, almost completely eliminating the virus in cell cultures. This was enough to attract the support of Glaxo Canada Inc., and the pharmaceutical firm pumped \$1.5 million into the work over a three-year period. That support has since been extended and has led to the creation of the Glaxo Heritage Research Institute.

The collaboration with Glaxo proved fruitful in the laboratory as well. "Our work led to our using our hepatitis system for screening other compounds Glaxo had in house," explains Tyrrell.

One of the compounds that the U of A researchers tested had been synthesized by Biochem Pharm of Montreal and later obtained by Glaxo as a possible AIDS treatment. That compound, which has been given the name Lamivudine, has since become the lead compound in Tyrrell's work on antivirals for hepatitis B.

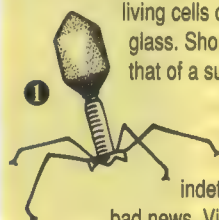
A bonus was the fact that Lamivudine had already undergone some of the rigorous testing that precedes the marketing of any new pharmaceutical. "There had been a lot of toxicology work done and it had already started to be used in some AIDS patients," says Tyrrell.

The compound has now gone through the first set of clinical trials testing its effectiveness against hepatitis B. The tests took place not only in Edmonton but at Yale University and in places as distant as England, Belgium, and the Netherlands. So far the results have been all that Tyrrell could

Viruses: Submicroscopic Hijackers on the Edge of Life

Despite the advances in understanding that have resulted from the intense scientific attention given to viruses, in many ways they remain enigmatic. They've been described as "a piece of bad news wrapped in protein," but some scientists believe that without the involvement of viruses in shuffling genetic information we wouldn't have evolution. While viruses are responsible for widespread disease and devastation, they have also shown great promise not only as bacteria fighters but as a tool for correcting genetic defects.

Some consider viruses to be a backwards step in evolution. Others believe them to be the oldest form of life. But are they even — in the strictest sense — alive? Viruses, in fact, occupy a hinterland on the very edge of life, not meeting all the requirements for life, but not dead either. Outside the living cells of a susceptible host they are no more alive than a grain of sand or a shard of glass. Should a virus penetrate a susceptible cell, however, it soon shows another face, that of a submicroscopic hijacker.



Lacking its own reproductive technology, the virus commandeers the cell's and turns it to its own use. Normally, a frenzy of viral reproduction takes place immediately; however, some viruses lay low, becoming activated only after an indeterminate latency period. Whenever the virus begins reproduction, it is usually bad news. Viruses have afflicted humankind since the dawn of history and continue to cause more sickness than anything else on earth. They are responsible for plagues such as polio, yellow fever, small pox and influenza. They cause hepatitis, rabies, viral pneumonia and a variety of other dangerous diseases. They also give rise to less terrifying maladies such as chicken pox, warts, mumps, measles, shingles and colds. They can cause some forms of cancer, and they can provoke the body's immune system to turn upon itself, as it does in AIDS.

Considering the harm they cause — not only to people but to plants, animals, fish, insects, even bacteria — it is hard to believe just how tiny viruses are. They make bacteria look huge. It would take almost 10,000 rhinoviruses, the virus responsible for the common cold, to span the width of a pencil stroke. This diminutiveness helped viruses elude scientific description until long after Edward Jenner developed his cowpox-based vaccination for smallpox, the first effective vaccine against a virus, in 1798. Almost a century later, a young Russian botanist named Dimitri Ivanovski made a sap from the leaves of diseased tobacco plants and showed that the agent responsible for tobacco mosaic disease could pass through a filter too fine for any bacteria to penetrate. At that moment, Ivanovski had the discovery of viruses within his grasp — unfortunately, he surmised that bacteria might be making a soluble toxin that was passing through his filter.

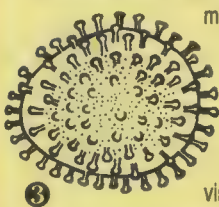


Martin Biejerinck was more inspired. The Dutch scientist performed the same experiment in 1897 but rejected the idea of a bacterial toxin. Instead, he proposed the existence of a novel type of infectious agent that wasn't made out of cells. In describing it, he used the word *virus*, based on the Latin word for poison or slime.

While subsequent researchers built on Biejerinck's breakthrough, it wasn't until 1939, when the advent of the electron microscope made it possible, that anyone actually saw a virus. Since then, advancements in electron microscopy and the development of x-ray crystallography techniques have given us a window to the world of viruses. We now know that they come in an amazing variety of shapes and sizes.

Some are shaped like miniature soccer balls. Others look like submicroscopic lunar landers. A typical influenza virus resembles the business end of a spiked mace, and the virus responsible for tobacco mosaic disease has an uncanny resemblance to a mini-cigarette.

Whatever their shape, viruses are studies in minimalism. They are simply a scrap of genetic material (DNA or RNA) wrapped up in a protein coat that may, in the case of some viruses, be augmented by an outer coat of lipid material torn from a cell. Despite this simplicity — or perhaps because of it — viruses have largely withstood the best efforts of legions of researchers around the world seeking effective treatments for viral diseases. Some scientific commentators feel that the tide in this battle may now be turning, but viruses remain among the trickiest opponents that medical science has ever faced.



① T4 Bacteriophage (a virus that infects bacteria)

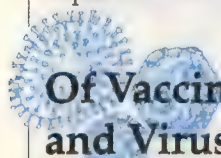
② Tobacco Mosaic Virus

③ Influenza Virus

hope for. "It's remarkably non-toxic and is a potent antiviral agent for hepatitis B," he says. "We are not 100 per cent sure whether we can cure with this compound yet — we may be just suppressing the virus, which would mean the patient would have to stay on therapy — but the work with the compound has progressed nicely."

Looking back on the six years since he began his hepatitis B research effort, Tyrrell finds great satisfaction not only with the speed at which the work has progressed but in the learning opportunities it has provided. "It's been very satisfying to work with students on a project where we have progressed from work on very early concepts, to designing compounds, to screening them, to doing animal work, and then carrying it right through to clinical work."

And best of all is the hope that he is able to give to his patients. "I've really found it terrifically gratifying to work with the hepatitis B patients and discuss with them the possibility of antiviral therapy. Many of them are really quite devastated with their disease, particularly if they have seen relatives suffer the consequences of carrying hepatitis B virus."



Of Vaccines, Virtuosity and Viruses

Not long ago John Elliott, '82 MD, '87 PhD, was asked to provide a title for a talk he was scheduled to give, a discussion of the research currently taking place in his laboratory. What sprang to mind, says Elliott, was the bit about the fellow who "jumped onto his horse and rode off in all directions."

It's not hard to see why.

Elliott remains active in the malaria research that has occupied much of his attention in recent years, but he is also excited about work he's begun in collaboration with University of Alberta researchers on the front line of the world-wide effort to conquer diabetes. And now he's a principal researcher in the University's new Glaxo Heritage Research Institute set up to fight viruses, particularly the viruses associated with AIDS and hepatitis B.

After earning his U of A medical degree in 1982, Elliott did a year's internship and then returned to campus to pursue a PhD degree in biochemistry, specializing in molecular biology and immunology. During this time, he caught the eye of Lorne Tyrrell, now the Glaxo Institute director, and when Tyrrell was establishing the Institute he invited Elliott to join him. And Elliott did, although he had never had more than a passing interest in viral diseases.

So what's he doing at an institute of virology?

"I've asked Lorne Tyrrell that several times," laughs Elliott. However, the answer is rather obvious. At first glance, Elliott's research might seem to be all over the map, but he has been consistently cultivating an expertise in gene cloning. And it's that virtuosity Tyrrell found attractive.

Elliott's background in immunology is also welcome. Both hepatitis B and AIDS are caused by viruses, but they and many other viral diseases involve an immune system response that is central to the disease. In fact, in some viral diseases more harm is caused by the body's immune system response than the actual viral invader.

A native Albertan who grew up in Camrose, Elliott came back to the University as an assistant professor of medical microbiology and infectious diseases in 1990. He brought with him experience gained during post-doctoral appointments at Stanford University and at a California gene-cloning company, where he began investigating the molecular biology of the parasite that causes malaria.

His interest centred upon the parasite's surface antigens—its molecular fingerprints—which trigger the production of antibodies in an infected individual and determine the antibodies' shape. With funding from the World Health Organization and Canada's Medical Research Council, Elliott has been cloning the genes that encode the malaria surface antigens expressed at various stages of the parasite's development. His goal is to use these genes to develop vaccines.

He has had some success that could lead to a vaccine that would block transmission of the disease by attacking the parasite when it is especially vulnerable. "The idea," explains Elliott, "is that when the mosquito takes up its blood meal it takes up the parasite, but it also takes up antibodies from the infected human." And inside the mosquito gut the parasite is soon stripped of the red-blood-cell coat that had protected it inside the infected human. Reaching the parasite at this vulnerable time would involve an "altruistic vaccine" — one that would be administered to infected individuals but would not help their fight with the infection. But it would introduce into their



Pains are being taken to ensure close working relationships at the Institute. Here, Elliott addresses the weekly journal club.

blood antibodies that would later work within the mosquito gut to prevent spread of the disease.

Elliott also has his sights set on developing a vaccine which would protect the individual to whom it is administered. To this end, he's using a new gene cloning technique called eukaryotic expression. "The technology is really exciting and developing quickly," says Elliott. Using antibodies from Africans who have developed immunity to malaria, he is establishing gene libraries to help identify the genes responsible for shaping the antigens on the surface of the malaria parasite when it is inside a human. Once these genes have been identified, they will be used to produce large quantities of the antigens for tests to see which ones are likely to be useful in a vaccine.

Although Elliott has continued his malaria work since returning to Edmonton, he prefers to work with a disease he can observe in a clinical setting — and there are very few malaria cases in Alberta. Unfortunately, the same can't be said about diabetes, and Elliott now works with the network of diabetes researchers funded at the U of A by the Juvenile Diabetes Foundation International. He is contributing his expertise to attempts to understand the cause of the form of diabetes that develops in children and young adults.

"The thing to realize is that it is a tiny volume of tissue that produces the insulin that keeps an individual non-diabetic," says Elliott. Juvenile-onset diabetes results when these insulin-producing cells, found in the islets of the pancreas, are destroyed by the body's own immune system. Elliott and his colleagues want to know why this happens.

A starting point is provided by research

which shows that, although auto-immune diabetes runs in families, often one member of a set of identical twins will develop it and the other won't. "Since less than half of identical twin pairs both develop the disease, it is clear that auto-immune diabetes results from the interplay of a genetic predisposition together with one or more environmental factors," says Elliott.

One possibility is that an immune system response against something in the environment — perhaps a virus — triggers the diabetes. The disease, in other words, could be the result of some sort of cross-reactivity or confusion. "Something about the insulin-producing cells might remind the immune system of a virus, causing it to attack and destroy these cells as well as the invader," says Elliott.

Another possibility — one that Elliott favors — is that a certain amount of stimulation of the body's immune system is necessary to teach it what is "self" and what is not. This stimulation could involve not only our own body tissue but also environmental factors such as the food we eat and the bacteria that live in our gut.

"Perhaps people who are genetically susceptible to diabetes are poor at learning self-tolerance," says Elliott. The balance as to whether or not the body learns to tolerate its own insulin-producing cells, he suggests, could be tipped by the nature of the stimulation received from one or more of the environmental factors.

Wherever the truth lies, says Elliott, the real challenge is to discover the nature of the environmental factors that play a role in auto-immune diabetes. Towards this end, his laboratory is cloning the genes for the antigens that give the insulin-producing cells their surface characteristics. These are being used to determine what it is about these cells that prompts the immune system to single them out for destruction.

In addition, Elliott is working with the U of A team that was the first in the world to successfully transplant insulin-producing cells in humans. "We've started looking at the idea of putting genes back into the islets to give them a survival advantage," he explains.

Elliott's involvement in both the malaria and the diabetes projects centres on his expertise in cloning genes, sequencing DNA, and making and purifying genetically-engineered proteins. As part of the Glaxo Institute, he's now bringing that same bag of tricks to bear on viral diseases, working closely with Tyrrell and AIDS researcher Lung-Ji Chang.

For Elliott it's new territory — but he's riding the same horse in the same direction. It's really only the scenery that's changing.

Taming Some Diabolical Viruses

Lung-Ji Chang was an undergraduate at the National Taiwan University when he first became acquainted with the extraordinary behavior of retroviruses. He had been looking for a focus for his career, and he had found it.

A dozen years later, on a different continent, Chang's life continues to be shaped by his fascination with these most diabolical of viruses — diabolical because of their singular ability to insert their genes into the genes of the cells they afflict.

Having penetrated to the heart of a cell, the retrovirus, essentially a tiny envelope of protein surrounding a single RNA strand, initiates a process that runs counter to the progression upon which life is based — the transfer of genetic information from DNA to RNA to create new cells. A retrovirus begins with RNA and works backwards, translating its genetic code into double-stranded DNA and then grafting it into the genetic material of the invaded cell. Now, whenever the cell replicates the virus will be a part of it — the genetic material at the heart of each new cell will say virus as well as cell.

Chang's original interest in retroviruses centred on the fact that some can cause cancerous changes in their host cells. "I was seeing so many cancer problems in people around me, and I wanted to contribute to

cancer research," he recalls.

As a PhD student at the University of Iowa in the early 1980s, Chang studied a classic retrovirus, the Rous sarcoma virus, which causes tumors in chickens. Discovered in 1911, RSV was recognized as a retrovirus 60 years later when the amazing life cycle of a retrovirus was first described and the name coined. Chang has since investigated a variety of retroviruses — as well as some viruses, such as the hepatitis B virus, which behave almost like retroviruses — but for the past four years he has concentrated on the retrovirus that has cast such a black shadow over world health in our day, the human immunodeficiency virus that causes AIDS.

In the fall of 1993 Chang left the largest medical research centre in the world, the National Institutes of Health in Bethesda, Maryland, to join the Glaxo Heritage Research Institute for Virology at the University of Alberta, where he will continue to contribute to the search for treatments — and, ultimately, a cure — for AIDS.

One of the tools Chang is using in his U of A laboratory is a "tame" strain of HIV that he developed at NIH. This genetically-engineered virus has restricted growth properties and a radically diminished ability to kill cells, and Chang is excited about its potential uses. "We now have a good molecular tool to use in our investigations of HIV," says the AIDS researcher, who tamed the virus by removing its viral trans-

activator — the component of the virus that regulates its spread and growth. The first papers describing this work will be published shortly, and he has begun to use the weakened virus in several projects.

When Chang began working with his engineered HIV strain, he soon made a surprising discovery: when he introduced the attenuated virus into certain human cell cultures, the cells were not destroyed by the infection but continued to thrive. And they did so while continually producing large amounts of HIV.

Chang is enthusiastic about the research possibilities of this unexpected development and has begun to investigate both the genetic



Chang and laboratory assistant Brad Booth, a fourth-year Medical Laboratory Science student, examine a DNA sequencing gel related to Chang's work with the virus linked to AIDS.

background of the cells that survive infection and the mechanisms of their survival. Equally exciting, he says, is the opportunity to use these surviving cell cultures as a medium for screening new anti-AIDS drugs — the cultures will show not only the effect of the drugs on the HIV virus but on otherwise healthy cells. In addition, Chang has hopes that the infected cells that thrive while continuously producing HIV may someday form the basis for a safer whole vaccine against the AIDS virus. (A whole vaccine is one that uses the entire virus, rather than just portions of its molecular make-up.)

Because it cannot activate itself, Chang's engineered virus will also be useful in studies investigating how other viruses are involved in triggering the development of AIDS.

Among the many mysteries surrounding AIDS is its unexplained latency period. The development of the disease does not immediately follow HIV infection; instead the virus remains in a latent state — a smoldering fuse burning a course towards explosion. But that fuse has no fixed length. "There is no exact time during the viral life span that it becomes active — in general it is five to 10 years after infection," says Chang. "But why at that time does the virus

become active?" he asks.

Researchers suspect that other viruses might play a role, but this is difficult to study in the laboratory because HIV normally kills the tissue culture cells it infects. However, using his attenuated strain, Chang is able to maintain an active HIV virus in culture for long periods. And what's even better, because it lacks its own activation trigger, the modified HIV virus is an especially good indicator of outside involvement — any onset of rapid growth or spread must necessarily result from an outside influence.

An offshoot of Chang's AIDS research is work that takes advantage of the remarkable ability of retroviruses to write new information into the genetic material of the cells it invades.

Not long after its extraordinary life cycle became known, the retrovirus's potential as a delivery system for desirable genes was recognized. Researchers saw how it might be possible to tailor a retrovirus in such a way that, instead of inserting its own genes into cells, it would place useful genes — hemophilia, for example, could be treated through a retroviral infection that introduced the genes responsible for the factor responsible for clotting blood.

The first experiments in gene therapy

using a retroviral vector date back to the early 1980s, and by the end of that decade the first experimental use of a retroviral vector in humans took place. While the technology shows great promise, the current retroviral delivery system has several deficiencies. Most importantly the level of infection is lower than desirable and the regulation mechanism that causes the inserted gene to be expressed — to produce its associated characteristic — functions inadequately. "Even if you get the gene to where you want it, it may not get expressed," explains Chang.

To overcome these problems, Chang has designed a modified gene therapy vector based on the MLV retrovirus, which causes leukemia in mice. Preliminary results — "some are very good," says Chang — show that this modified vector not only produces higher levels of the desired infection but allows increased expression of the foreign gene after it penetrates the host cells.

Chang's tests of his new gene-delivery system use HIV as a target. Anti-HIV genes are inserted into the retroviral vector, and this is then used to treat HIV-infected cells in tissue-culture. If all goes well, the result could be not only an improved gene therapy vector, but an important weapon in the fight against AIDS.



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Seizing Opportunity in Residence Life

When Heidi Johnson first moved into Lister Hall, she hated it. She didn't get along with everybody, she didn't get involved with anything, and she was generally miserable — until Christmas. That's when her floor coordinator asked her to run for that position for the next term.

Initially Johnson was reluctant, but after thinking it over and talking about it with friends on the floor, she decided to go for it. Now, four years later, she is a walking advertisement for everything that's good about life in the University's residences.

"We don't just live between walls; it's a community," she says. "There's so much a sense of community and involvement."

That's exactly the goal that Residence Life manager Michel Ouellette has been striving for since he came to the U of A from New Brunswick six years ago. Ouellette, who oversees programming for the 3,200 students and student families who live in the University's six residence communities, is determined to clear up the misconception that "all we're doing is providing food for students and a roof over their heads."

Two years ago Ouellette introduced Learning Through Leading, a four-pronged initiative that introduces students to the University and the community, provides programs ranging from social to career-preparation, offers opportunities for leadership, and rewards students for their contributions and commitment.

The programs cover five areas: academic development, personal development, health awareness, career development, and community development. There have been seminars on substance abuse, choosing a graduate career, and résumé writing. There have also been lighter activities, among them a tobogganing party for children at Michener Park, and a hockey weekend during which a

busload of Lister Hall residents headed south to challenge their counterparts at the University of Calgary.

The nature of the program and the level of participation often depend on the community involved. Ouellette is aware that not all students are interested in spending their non-academic time with their neighbors — Learning Through Leading is not mandatory — but, he says, many students want to get involved.

"You run into the student who sees the support we provide them as being unnecessary," says Ouellette, but adds that many students who arrive at Lister looking for independence come to appreciate the support systems in place.

"Others enjoy Lister, but they want more independent living, so they move into HUB and Garneau and don't realize that we have an influence there as well. I do realize — and no one has been able to convince me otherwise — that anybody who moves into a community wants to know that they belong. They do want to know that we care about them beyond whether they pay the rent."

Residence students can get involved in several ways, from simply participating in programs to helping organize and run things. Everyone who gets involved can get credit. All they need is time and a passbook. The passbook, which Ouellette introduced last fall, simply provides students a way of keeping track of their activities. Once they complete the requirements — which include taking part in or leading various Residence Life programs — they will receive a certificate.

"The idea of getting credit for being involved in the community was part and parcel of the Learning Through Leading program," Ouellette says. "When you look at the amount of time that students devote to community development, if you equate that to the amount of time they spend on courses for academic credit, you can make the relationship that exists between the two



Residence Life manager Ouellette and Johnson outside Lister Hall.

pretty apparent."

In other words, it's a case of giving credit where credit is due, or, as Ouellette says, "in the case of student leaders, long overdue."

Last fall, the University gave student leaders a chance to get academic credit as well, through a course called "Leadership Education and the Residence Community," offered through the Faculty of Education.

Although the course was open to all students, it was designed for those involved in Residence Life leadership programs. Of the seven participants, three were Residence Life leaders, and the class provided them with a unique opportunity to apply practical living experiences to education, and to apply that education to daily life.

Among the issues that came up in the class were time and stress management, study skills, suicide prevention, programming, wellness, and student leadership. Learning how students in other residences handled such issues was especially valuable, says Johnson, who took the class.

"The group was really open and honest and shared a lot of things we were going through," she says. "It allowed me to do a lot of reflecting."

Wayne Messner, assistant to the Residence Life coordinator in Lister Hall, says the class gave him a chance to discuss leadership and to learn "theo-

retical applications" as well.

A sociology student who has lived in Lister Hall for four years, the last two in a leadership capacity, Messner was grateful for the opportunity to spend more time thinking about his job and how to do it better. Though the course has been over for several months, the need to think about how his performance affects others is a lesson that has stayed with him.

"In my day-to-day business, I'm thinking about whether I am doing those things that we had talked about in class," Messner says. "Am I encouraging people to trust me? Am I being receptive to people? Am I listening effectively? Those are key components — as we looked at the literature we saw that these are important things."

The course will be offered again next September, and Ouellette hopes that a second course for student leaders, "Leadership for the Meeting Room and Beyond," will be in place in the spring 1996 semester. Even if it's not, he intends to continue giving students a chance to get involved and be recognized for that involvement.

"Given that students probably spend 18 of their 24 hours in residence," he says, "there are unique opportunities for students to grow as individuals, and we've seized the opportunities that are there."

DEBORAH WALDMAN



M. Ertman

New York



Reg Moncrieff
'70 BA

When Reg Moncrieff stops to total the number of universities at which he's studied, he counts seven. "And I was never treated better than at the U of A," he says. "My experience there was the best. It was the most stimulating, the most receptive to what I wanted to do."

It's no accident, therefore, that Reg is an enthusiastic supporter of the University as the president of the Alumni Association's New York Branch.

Reg's choice of New York City as a home was less deliberate. He hadn't planned on settling there when he enrolled in the dental school at NYU in 1975, but one thing led to another and he's been there ever since and now has a general dentistry practice in the heart of downtown Manhattan. Although we tend to think of New York as the quintessential megalopolis, it's the "village atmosphere" that Reg likes best about the Big Apple. "Everything you need is within walking distance," he points out.

Reg says that when planning branch events in New York it's important to keep in mind the realities of life in the huge and bustling city. "People live far apart, their homes are generally smaller, and there's never a shortage of social things to do."

That makes it necessary to plan innovative Branch events, and one that has proven popular with alumni is the Branch's annual skating party. After all, points out Reg, most people from Alberta have developed some sort of proficiency on skates — enough, at least, to stand out in Central Park. "We look really good out there," he says.

Alumni Branches: For Fellows and Support

A malt whiskey tasting seminar in Grande Prairie, Alberta. A special show of Alberta art in New York City. A tour of the newly-completed Commonwealth Games facilities in Victoria, B.C. A reception at the Canadian embassy in Tokyo. These are just a small sample of the events that have brought University of Alberta graduates together in the past year.

There are approximately 160,000 living alumni of the University of Alberta. While a good number of these — about 40 per cent — make their homes in Edmonton and nearby communities, others are scattered not only throughout Alberta and Canada but around the world. More than 12,000 graduates of the University now make their homes in 120 different countries outside of Canada.

While some of the alumni who reside away from Edmonton live in remote locations, far distant from any other members of the University's alumni family, there are many centres in Canada, the U.S.A., and elsewhere in the world where the opportunity exists for graduates to get together and form branches of the University of Alberta Alumni Association. In many parts of the world, alumni have done just that, and come together on a regular basis in support of their alma mater.

Sometimes University of Alberta alumni meet along with graduates of other Canadian universities. Such has long been the case in places like Chicago and Washington D.C., and that was also the case last fall when graduates of the U of A were among the more than 200 graduates from 25 Canadian universities who took part in the first-ever Canadian Universities Night in Milan, Italy.

Another new U of A alumni branch was formed when a dozen alumni and spouses gathered in Dawson Creek, B.C. earlier this

year for the first time ever held in the province. Attendees, Phil and Lois Stanbury, were attending life, with the Class of '90.

Special: Lois Stanbury (student at the time) that the very convivial published assist us, and for the first time from 1963 still fit, making

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year for the first official U of A alumni event ever held in that location. One of the organizers, Phil Cove, '67 BA, reports that "Alumni attending represented 50 years of University life, with grads from the Class of '44 to the Class of '93 coming together."

Special guest for the Dawson Creek event was Lois Stanford, the University's vice-president (student and academic services). Cove reports that the visit with Dr Stanford was part of a convivial evening. "With a copy of the first published version of the University song to assist us, we sang the song again, for most of us, for the first time since leaving campus. One grad from 1963 wore his University blazer, which still fit, making the rest of us envious!"

The addition of the Dawson Creek branch brings to 17 the number of Canadian cities with active Alumni Association branches. In addition there are six branches in the U.S. and 10 overseas branches.

Branch activity dates back almost to the first days of the Alumni Association. The first formal branch was formed in Calgary in 1924, but even before then alumni in many areas were gathering together to recall their days on campus and share their experiences as they made their way in the world.

The February 1924 issue of *The Trail*, the precursor to *New Trail* as the U of A alumni publication, contains correspondence from Arthur Donaldson, '22 BSc(Eng). Writing from Ocean Park, near Los Angeles, California, Donaldson reports that "Yours truly, having eaten heartily in the Paulois Restaurant in the fair city of the Angels, was so drugged as to let himself be appointed factotum and bottlewasher for the assembled U. of A. folks, of which there were about twenty-eight present (including wives)."

In the sportive prose peculiar to the era,



Hong Kong



Brenda Tse
'90 BCom

Hong Kong. A skyscraper city built around one of the world's most beautiful harbors. Throbbing and bustling, it's the bargain centre of the world.

Tse Yuk Ping — Brenda Tse, to most of her Canadian friends — loves the excitement of her native city. There are always "a lot of opportunities waiting for you," she says. She also enjoys the convenience. Take food, for instance: she points out that whenever she wants to eat

she can enjoy a variety of food choices no farther away than the street below her flat.

Brenda, who is president of the University of Alberta Alumni Association's Hong Kong Branch, returned to Hong Kong after receiving her bachelor of commerce degree in 1990. She's now an accountant for Planet Hollywood Hong Kong Ltd., which in April will open a restaurant belonging to the Planet Hollywood chain owned by Hollywood stars Arnold Schwarzenegger, Sylvester Stallone and Bruce Willis.

For Brenda, involvement in the Hong Kong Branch provides an opportunity for forging new friendships and meeting old friends. The Branch is a very active one, and among her favorite activities are the receptions held for overseas alumni and other visitors from the U of A, including the president of the University, senior professors and others.

Brenda has a simple explanation for why she is involved in her University of Alberta branch: "I do it for the U of A. I love the U of A and want to do something for it."



Calgary



Karen Kryczka
'59 BA

The rivalry between Alberta's two largest cities is even older than the province itself. Karen Kryczka has seen it from both sides. A native Edmontonian, she graduated from the University of Alberta in 1959 and moved to Calgary the same year and went to work for Amaco Petroleum. She's lived in the southern city ever since. There, she raised two children, both now graduates of the University of Calgary, and got involved with the U of C herself, serving on its senate.

But she hasn't forgotten her own university. There are more than 10,000 University of Alberta graduates living in Calgary, and in 1988 Karen was part of a small group of them who came together to revitalize the U of A Alumni Association's Calgary Branch — an alumni branch which had waxed and waned over the years and had at that time lost momentum.

Karen is now the branch president. She sees the branch providing opportunities for camaraderie, but also helping to keep them informed about developments at their alma mater. "We're interested in what's happening there," she says.

While the Calgary Branch is not yet as active as she would like to see it, she is pleased by the willingness to contribute shown by a variety of graduates. "We're doing it for the U of A," she says.

Donaldson goes on to report on the activities of those present. (He gives tidbits such as: "Davy Teviotdale and his wife Margaret tore themselves away from their beloved chicken ranch to sojourn with us, and pour plaintive tales on the lack of consideration of the said fowls in the matter of hen fruit.") He then adds, "We are proposing to hold a gathering every second Saturday of each month, visitors always welcomed; so that you may expect to hear from us again. We are to have our next meeting in Hollywood of wicked memory, or in Venice with the mermaids."

The Alumni Association records fail to show how long Donaldson and his friends continued to meet on a monthly basis, but Los Angeles continues to be a centre for Alumni Association activity in the U.S.

Across the continent is another active Alumni Association branch. Now in its seventh year, the New York Branch has organized many successful and innovative events for the 150-or-so University of Alberta alumni who reside within the shadow of the Manhattan towers. The branch holds annual skating parties in Central Park, and last spring it organized a special art exhibit in connection with its annual meeting. Works from 13 Alberta artists, all U of A graduates, were chosen for the show, and five of the artists were in attendance for the Branch's reception held in the Government of Alberta's Manhattan trade office. (In a number of areas, the international trade offices maintained by the Government of Alberta provide valuable assistance in the

Why Not Get Involved?

For information about how you can become involved in branch activities, please contact the branch president in your area or the Office of Alumni Affairs. If there is no alumni branch in your area, we'd be pleased to help get one started.

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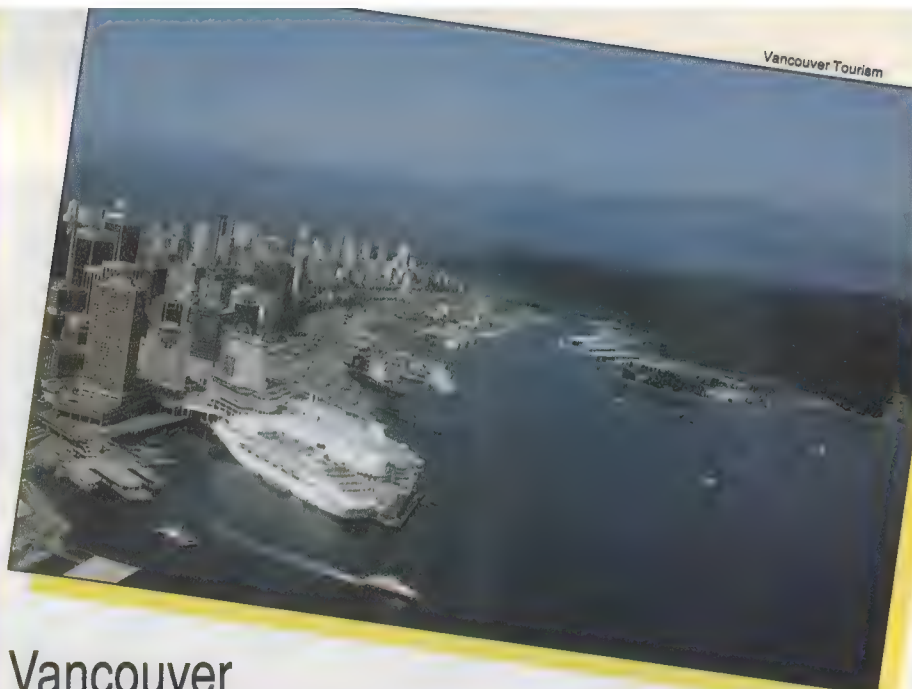
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planning of branch activities.)

In 1992 the New York Branch received recognition for its efforts when it received the Alumni Association's Burgess trophy. Donated by a former Alumni Association president, **Bruce Burgess, '48 BSc(Eng)**, the Burgess Alumni Cup is presented annually by the Alumni Association to the "best all-around branch" outside of Alberta.

In 1993 the Burgess Cup went to a perennial winner, the Victoria Branch, which has won the trophy no less than 17 times since it was introduced in 1960. At the same ceremony at which the Victoria branch president, **Don Sampson '53 BSc(Eng)**, accepted the Burgess Cup, the Alumni Association's other major branch award was presented to the Grande Prairie Branch. The president of that branch, **Campbell Ross, '89 PhD**, was on hand to receive the trophy presented each year to the most active branch within Alberta — the G.B. Taylor Award, named in memory of **Geoffrey Taylor, '23 BSc, '25 MSc**, who was registrar of the University and voluntary secretary of the Alumni Association during the 1930s and the Second World War.

Alumni take part in branch activities for a variety of reasons: to see old friends, to make connections in a new city, to keep in touch with events on campus, or simply to have an evening out. But **Brenda Tse, '90 BCom**, the president of one of the Association's most active overseas branches, the Hong Kong Branch, speaks for most alumni involved in branch activities when she says, "I do it for the U of A."



Vancouver



Vic Harrison
'58 BSc(Pharm)

Like hundreds of other Albertans before and since, Vic Harrison sought a less-demanding climate when he retired. His search took him to Canada's west coast, and he now makes his home in West Vancouver.

Vic, who was the owner-manager of the Edmonton-based Vic's Super Drugs chain from 1956 to 1981, has lived on the B.C. coast for just over eight years now and became president of the Alumni Association's Vancouver Branch in 1993.

One of the Alumni Association's most active branches, the Vancouver Branch holds its annual meeting each year at a popular venue, the Royal Vancouver Yacht Club. Another highlight on the Branch calendar is an annual Christmas event. The events, says Vic, provide a welcome opportunity to meet other University of Alberta graduates and to see some old friends. He particularly enjoys seeing fellow pharmacists and other former Edmontonians who have migrated to the Vancouver area following retirement.

In fact, points out the Vancouver branch president, there are so many retired Edmontonians on the West Coast, that his brother, **Marshall Harrison, '53 BSc**, who lives in Edmonton, will sometimes accompany him to the Vancouver Branch meetings, where he is sure to see a number of old friends.

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Exploring Mysteries in a Cosmic Laboratory

When Joan Wrobel, '76 BSc, was growing up in Edson, she used to gaze at the night sky over Alberta and wonder, "Gee, what happens up there?"

Today, armed with her honors degree in physics from the U of A and a PhD in astronomy from the University of Toronto, Wrobel has answers to some of her questions. But the more questions she answers, the more she finds to ask.

"I understand more than I did 10 years ago, but that doesn't mean I'm losing interest," she says, "because the puzzles just keep getting more complicated."

The puzzles she's looking at these days have to do with galactic nuclei and black holes, phenomena that Wrobel studies as an astronomer on staff at the United States' National Radio Astronomy Observatory in Socorro, New Mexico.

NRAO is considered by many to be the best facility of its kind in the world. Certainly its equipment is first-rate. Wrobel spends much of her time working with the facility's newest and most sophisticated piece of equipment, the Very Long Baseline Array. Unveiled last summer, the VLBA is the world's largest and most powerful radio telescope. Its angular resolution is 100 times better than that of the Hubble Space Telescope. Put in simpler terms, if your eyes had a similar resolution, you could sit in Edmonton and read a newspaper in Halifax.

What gives the VLBA its unique and superior resolution is the way it has been set up; it's actually 10 separate but identical automated antennas spread from Mauna Kea, Hawaii, to St. Croix in the U.S. Virgin Islands — a distance of 8,600 kilometres. Each antenna is 25 metres in diameter, weighs 220 tonnes, and is hooked to an accurate



Working with the world's most powerful radio telescope Wrobel is exploring cosmic mysteries, but the more questions she answers, the more questions arise.

atomic clock and a tape recorder. The antennas are aimed at an area in the sky that the astronomer wants to image, and they capture the radio waves coming from that region.

The tapes are collected at each site and mailed to Socorro. There, a special computer, a correlator, reads the signals and interprets them, a task that would be impossible to accomplish by hand. The correlator, which was built by NRAO staff, can perform an astonishing 750 billion multiplications per second.

Until the VLBA was put to work, radio astronomers depended primarily on the NRAO's Very Large Array, which comprises 27 antennas, each 25 metres in diameter, clustered on the Plains of St. Agustin near Socorro. Although the VLA enabled scientists to observe far-off radio sources, its angular resolution wasn't sufficient for studying the smallest sources.

The VLBA has many applications, the most practical of which are that it can provide information on continental drift and global climate, which may someday be used to predict earthquakes and global warming. However, Wrobel's research is more esoteric. Among other things, she and a colleague, John Conway, have been studying a galaxy that is 300 million

light years from the earth. That means that the radio waves that the VLBA has collected from the galaxy began their journey to the earth in pre-Jurassic times.

The galaxy, which is known as Markarian No. 501, has an active nucleus, which is the energy source for a jet of fast-moving particles that emit radio waves. Wrobel and Conway are intrigued by the very real possibility that the nucleus consists of not one, but two black holes.

Wrobel is also studying the nucleus of a galaxy in the Virgo cluster of galaxies to determine what drives its twin radio jets.

"I love mysteries," she says. "The kind of phenomena we see I find very fascinating and wonderful to try to explain — we are basically examining physical conditions which can't be achieved in laboratories on the earth."

"Cosmic laboratories" is the term Wrobel uses to describe her sphere of study. "In those laboratories," she says, "you can have the sort of situations you can't even imagine on the earth — scorching temperatures, crushing pressures, enormous densities, and extremely powerful magnetic fields."

Wrobel has other responsibilities besides research. Because the NRAO is a magnet for radio astronomers

from around the world, staffers are expected to help visiting observers, as well as help collect data for "absentee" observers — those who can't come to Socorro but avail themselves of its equipment from their own institutions in such places as Argentina, Italy, and Russia.

Also, Wrobel has been helping to work out the bugs in the VLBA, something that's necessary with almost any new piece of equipment.

All that cuts into research time, which is why she has been looking forward to her sabbatical, which began early in March. Wrobel will spend six months at Jodrell Bank, a radio observatory near Manchester, England, analyzing her VLA data on a Seyfert galaxy, to determine if the galaxy's nucleus is evolving.

"I feel privileged to be an astronomer," she says, remembering her childhood dreams and her beginnings at the U of A, whose motto she hasn't forgotten. When she scans the radio cosmos, says Wrobel, it is part of the continuing search for *quae-cumque vera* — whatever things are true.

DEBORAH WALDMAN

Graduate's Images Impress

Until last spring, the only photo competitions Miles Ertman, '83 BSc, '90 BEd ever entered were the monthly ones sponsored by an Edmonton camera club he once belonged to.

But Ertman has been getting more serious about his photography, so he decided to compete in a wider arena. Last year he sent pictures to contests sponsored by National Geographic



Ertman

Traveler, Photo Digest, Photo Life, and the Edmonton Journal. He won every contest he entered.

In the *Edmonton Journal's* "places" category, he picked up a first and a third place with shots of Mount Assiniboine and Edmonton's skyline. A summertime shot of Moraine Lake bathed in dawn's pink glow caught not only the eye of the *National Geographic Traveler* judges, who awarded it their grand prize, but of movie director Steven Spielberg, who had his secretary call Ertman to ask for a print of the photo, enlarged to more than a metre wide.

Ertman says he was "a bit excited" by the request. "It was like winning another prize."

In addition to his success in the *National Geographic Traveler* and *Edmonton Journal* contests, Ertman picked up a first prize in the *Photo Digest* "landscapes" category for a shot of Mono Lake on the California-Nevada border. He took that photograph during a trip in the summer of 1992, the same trip on which he took the picture that won the "natural patterns" category in *Photo Life* magazine's contest, a shot of rows of cabbage in a field near Monterey.

For his efforts, Ertman won a total of \$5,500 in camera equipment and the trip for two to China, complete with spending money, that *National Geographic Traveler* offered as its grand prize. A math and physics teacher at Edmonton's Tempo School, Ertman says he'll probably take the trip in the spring. He's hoping that his brother, **Morris Ertman, '80 BA, '85 MFA**, a set designer and theatre director, will be able to join him.

Ertman, who grew up in Millet, Alberta, has been taking pictures since his parents gave him a Kodak Instamatic for Christmas 20 years ago. One of his first subjects was Comet Kohoutek. He put a pair of binoculars in front of his camera lens and attached a piece of thread to the shutter to keep it open. The picture came out black.

When he was in high



With images such as these, Ertman has hit the jackpot in photo contests. Above: Cabbage field near Monterey. Right: View of downtown Edmonton.

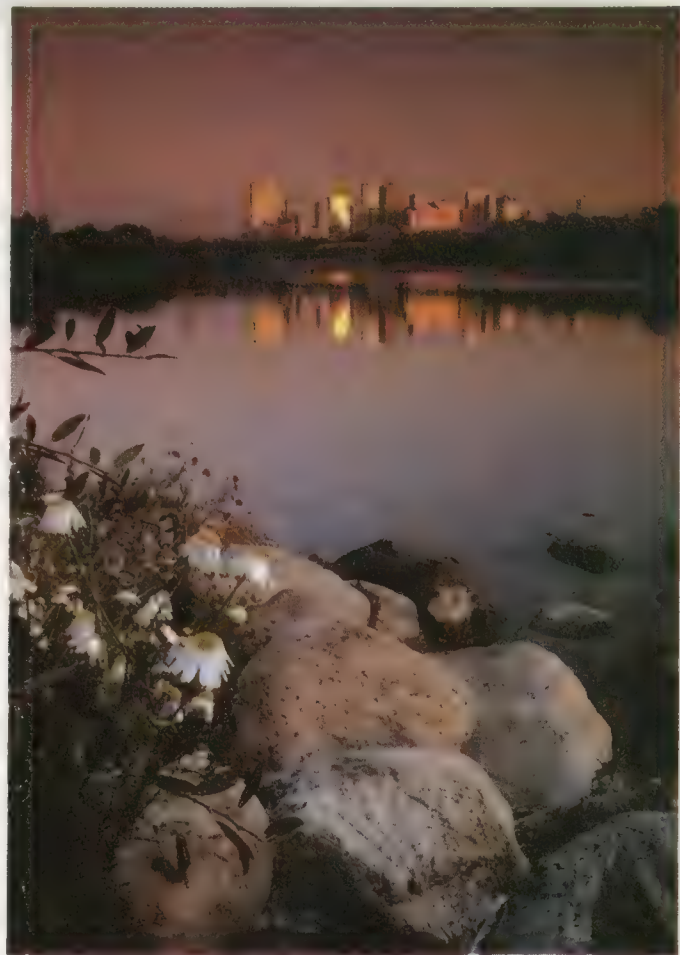
school, Ertman's interest in photography received a boost when he got a 35mm camera. The turning point, however, came during a 1986 trip to Europe that stirred his interest in photographic art.

"I would go and look at postcards and calendars and try to shoot the same picture," he says. "I would scout the area trying to find the angle and location from which the photo was taken. That was my form of sight-seeing."

Since then Ertman's had his own photos made into postcards and used in calendars. The Moraine Lake shot and one of his rows-of-cabbage photos will be featured in a *National Geographic Traveler* calendar next year.

Although most of his pictures are of places, Ertman says he doesn't have a favorite genre. He'd like to do computer manipulation of images, but his equipment is best for landscapes, so that's what he concentrates on.

Ertman is certain that he'd like to earn a living taking pictures some day. He's less



certain whether he'll be entering any more contests.

After hitting the jackpot the

first time out, he says, he's scared to try again.

DEBORAH WALDMAN

Alumni Recognition Wall to be Unveiled

Sixteen individuals — among them a former prime minister of Canada, a federal supreme court justice, a much-admired medical missionary, a former Alberta premier of Alberta, and a Nobel Prize winner — will be honored for their contributions to society and their professions at the University in late March.

All are University of Alberta alumni who will be inducted onto the Alumni Wall of Recognition at its unveiling on 22 March 1994.

The Alumni Wall, created as part of the recent renovations to the Students' Union Building, is designed to serve as an inspiration to U of A students — the alumni of the future.

Located in the northeast corner of SUB's main floor, the Wall is an attractive blend of glass and wood and features a central fireplace. It incorporates 16 spaces for displays, which will include photographs and biographical information.

The Alumni Association plans to induct new members to the Wall on a regular basis. Outgoing displays will be circulated to other campus locations.

The concept of the Wall was brought to Alumni Council by the Students' Union and quickly found support, says Alumni Association vice-president (programs), **Jim Beckett, '73 BSc(Eng)**. "The students deserve a lot of credit for developing this plan. The Council is delighted to have such an attractive and accessible display area which honors the achievements of these worthy alumni," he says.

Half of the inductees are expected to attend the unveiling ceremony on Tuesday, 22 March at 2:00 p.m. The Association is welcoming all who wish to attend and students, in particular, have been encouraged to take part. "It's a terrific opportunity for them to meet some outstanding individuals who are incredible role models," says **Susan Peirce, '70 BA**, director of the Office of Alumni Affairs.



Nobel Prize winner Dick Taylor (right) and SU President Terence Filewych examine a sample display in front of the Alumni Wall. Taylor is to be one of 16 inaugural inductees to the Wall, which honors U of A alumni.

Alumni Wall of Recognition Inductees

Doris Anderson, '45 BA, '73 LLD (Honorary)

A journalist and advocate for women's rights, she is a former editor of *Chatelaine* and former president of the Canadian Advisory Council on the Status of Women.

Joseph Charyk, '42 BSc(Eng), '64 LLD (Honorary)

The founding president of the Communications Satellite Corporation, he guided the growth and development of the international INTELSAT system.

Joe Clark, '60 BA, '73 MA, '85 LLD (Honorary)

When he became Canada's 16th prime minister in 1979, he was the youngest person ever and the first native-born Western Canadian to hold that office.

Naomi Hersom, '69 PhD, '92 LLD (Honorary)

A respected educator and researcher on women's issues, she is the former president of Mount St. Vincent University in Halifax.

Helen Huston, '49 BSc, '51 MD, '85 LLD (Honorary)

She spent more than 30 years as a medical missionary to Nepal and is a recent winner of the Sir Edmund Hillary Foundation Award for Humanitarian Service.

Raymond Lemieux, '43 BSc, '91 LLD (Honorary)

Considered the modern pioneer of carbohydrate chemistry, he has won numerous awards including 15 honorary degrees from universities around the world.

Peter Lougheed, '51 BA, '52 LLB, '86 LLD (Honorary)

A former premier of Alberta, he went on to gain national recognition as a champion of the interests of Western Canada and of Canadian unity.

Gerald Maier, '51 BSc(Eng)

The chairman and CEO of TransCanada PipeLines, he is respected as a leader in the energy industry and as a passionate spokesman for Canadian unity.

Beverley McLachlin, '65 BA, '68 LLB, '68 MA, '91 LLD (Honorary)

Now regarded as one of the leading thinkers on the Supreme Court of Canada, she was appointed to Canada's highest court in 1989.

David McLean, '59 BA, '62 LLB

A former chair of the board of governors at UBC, he founded the McLean Group of companies and is a recent chair of the Canadian Chamber of Commerce.

Glenda Simms, '74 BEd, '76 MEd, '85 PhD

She has made important contributions as a specialist in Native Education and as president of the Canadian Advisory Council on the Status of Women.

Margaret Southern, '53 BPE

The president and CEO of the Spruce Meadows equine centre, she was honored as "executive of the year" by the Institute of Management Accountants in 1989.

Donald Stanley, '40 BSc(Eng), '88 LLD (Honorary)

He transformed his one-person engineering practice in Edmonton into the Stanley Technology Group of Companies with offices world-wide.

Richard Taylor, '50 BSc, '52 MSc, '91 LLD (Honorary)

His many scientific honors include the 1990 Nobel Prize for Physics, recognizing his role in discovering physical evidence for the existence of quarks.

Francis Winspear, '51 LLD (Honorary)

A highly-respected accountant and businessman, he has been a good friend to the University for 60 years and is a generous benefactor to community concerns.

Ovid Wong, '70 BSc, '71 Dip(Ed)

A distinguished educator with a love for the classroom, he shares his enthusiasm for science through his award-winning science books for children.

MasterCard Supports Alumni Programs

Since the program was launched in 1988, the University of Alberta MasterCard has attracted more than 7,500 cardholders. Of these cardholders, 60 per cent are regularly using their card, bringing in \$50,000 to \$55,000 in revenue per year for the University. As the number of people who use the card increases, so does revenue for programs to support the University.

Some of the programs which benefit from this funding include student awards and bursaries, employment workshops for alumni, and class reunions and newsletters which help classmates remain in touch with each other and with the University of Alberta. Plans are underway to sign a new five-year agreement with the Bank of Montreal ensuring that the University will continue to receive a percentage of every card transaction.

To apply for the card, which features a photograph of one of many historical buildings on campus, the Dentistry/Pharmacy Centre, complete the application found in this magazine. To transfer your card from a regular MasterCard to a University of Alberta MasterCard, simply provide the basic contact information, your current card number, and signature. Your account will be transferred, and you will receive a new U of A MasterCard card with your original card number.

In the next five years, the University MasterCard program will continue to be an important source of funding for the University of Alberta Alumni Association and its programs. Alumni, faculty and student support is definitely appreciated. Unfortunately, the Alumni Association has no way to individually thank the many cardholders who make this important contribution, because access to the names of cardholders is restricted in the agreement with the Bank of Montreal.

Are You Unemployed?

Do you require assistance in making yourself more saleable in the competitive job market? If you do and you are a University of Alberta graduate, plan to attend one of the **Alumni Employment Workshops** scheduled for Thursday, 28 April 1994 on campus.

These workshops will be conducted by personnel from the University's Career and Placement Services and will cover the following areas:

Job Search and Résumé Workshop

9:00 a.m. to 12:00 noon

- ☐ Learn how to do a self assessment and establish a skills inventory.
- ☐ Learn about the different types of résumés and determine which one will work best for you.
- ☐ Learn effective job search techniques.
- ☐ Acquire skills to write effective covering letters

Interview Skills Workshop

1:30 p.m. to 4:00 p.m.

- ☐ Apply effective job interview skills.
- ☐ Prepare for "typical" interview questions.

Cost for each workshop is \$15 (add \$1.05 for GST) or \$25 for both (add \$1.75 for GST). If you are an unemployed alumnus looking for a part-time, full-time or career-related position, register (before 18 April) by contacting:

Office of Alumni Affairs
4th Floor, Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
(Telephone 492-3224)

Association Calendar

Branches

Hong Kong

29 March 1994 Reception / HK\$280 per person
Overseas Bankers Club / 6:00 PM
Speaker: President Paul Davenport
RSVP by 25 March: Brenda Yuk-Ping Tse, 428-4826

Tokyo

5 April 1994 Reception
Canadian Embassy / 6:00 to 8:00 PM
Speaker: President Paul Davenport
RSVP by 30 March: Larissa Blavatska, 3408-2101

Victoria

23 April 1994 Annual Spring Meeting / \$19.50 per person
Olympic View Golf Course / 11:30 AM Reception 12:30 PM Luncheon
Speaker: President Paul Davenport
RSVP by 31 March: Ralph Clarke, 642-3119

Vancouver

24 April 1994 Spring Brunch & AGM / \$20 per person
Royal Vancouver Yacht Club / 11:30 AM No-host Bar 12:30 PM Brunch
Speaker: President Paul Davenport
RSVP by 16 April: Vic Harrison, 922-8879

Calgary

25 April 1994 Wine and Hors-d'oeuvres Reception / \$10 per person
IMAX Theatre Lobby at Eau Claire Market / 5:00 to 6:30 PM
Speaker: President Paul Davenport
RSVP by 21 April: Karen Kryczka, 243-6967

Washington, D.C.

30 April 1994 All Canadian University Association Dinner
Holiday Inn, Bethesda, Maryland / \$30 per person
Speaker: Dr K George Pedersen, President, U of Western Ontario
RSVP: Anne Harvey, (202) 296-1868

Chicago

6 May 1994 8th Annual All-Canadian Universities Event
Arts Club of Chicago, 109 East Ontario
6:00 PM Reception 7:00 PM Buffet Dinner / \$40 per person
Speaker: Dr James Downey, President, University of Waterloo
RSVP by 22 April: Canadian Club of Chicago, 256-4422

Other

University of Alberta Alumni Association

12 May 1994 Annual General Meeting
Alumni House, U of A / 5:30 PM
All alumni are welcome but must pre-register
To register: phone (403) 492-3224 by 12 May 1994.

Business Alumni Association's Calgary Branch

22 March 1994 Luncheon / \$15 per person
Delta Bow Valley Hotel / 11:30 AM Registration 12 NOON Lunch
Speaker: Mr Rob Peters, Chairman and CEO, Peters & Co Ltd
RSVP: Wayne Pennington, 267-1200

Nursing Alumni Association

22 March 1994 Seminar: "Starting an Independent Nursing Practice"
Alumni House, U of A / 7:00 PM / \$10 per person
Speaker: Alaire Zavers, President, Heart Health Consulting
To register: phone (403) 492-3224

Pharmacy Alumni Association

9 April 1994 AGM and Continuing Education Seminar
Edmonton
Please watch your mail for further details.



Nylons to Perform on Opening Night of Reunion Weekend 1994

On Friday, 30 September, Reunion Weekend 1994 will get off to a lively start with a special performance of the popular a'capella singing group the Nylons.

The quartet's vocal improvisations take in everything from scat to soul ballads to pop and reggae beats. Canadian-based, they've toured the world, selling gold in Belgium, Holland and Luxembourg and winning the Best Singers award at the 1987 Tokyo Music Festival. Their first self-titled album sold 50,000 copies in two weeks and subsequent albums continued their popularity. Their most recent release is *Live to Love*.

Alumni Association A W A R D S

The Alumni Association requests nominations for its most prestigious awards, which will be presented on 1 October 1994 as part of the activities of Reunion Weekend '94.

Distinguished Alumni Awards

A maximum of three Distinguished Alumni Awards will be presented to recognize "exceptional contributions to a profession and/or outstanding contributions and service to the University of Alberta, society or the welfare of others." Nominees must be living graduates of the University of Alberta. Those who are, at the time of nomination, employees of the U of A, members of its Board of Governors or Senate, or serving on Alumni Council are not eligible.

Alumni Golden Jubilee Award

The Alumni Golden Jubilee Award was initiated in 1958 to honor individuals who have contributed to the welfare of the University, either directly or indirectly. Nominees need not be graduates of the University.

Nominations for both awards must be made in writing.

For official nomination forms contact the Communications Committee, c/o Office of Alumni Affairs, 450 Athabasca Hall, University of Alberta, Edmonton, Alberta, Canada T6G 2E8. Phone: 492-3224 in Edmonton; toll-free 1-800-661-2593 elsewhere in Canada. *Please specify which awards you are interested in.* The deadline for receipt of nominations is **31 March 1994**.

1994 Class Reunions

The Alumni Association is happy to assist individual classes or groups wishing to organize special events during Reunion Weekend '94 (September 30, October 1 and 2, 1994). Help can also be provided to classes planning reunions at other times.

The following classes are currently planning reunions:

Class/Place/Date/Contact:

- '24 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '34 Graduating Class Edmonton/Reunion Weekend/Muriel Thomas
- '44 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '44 Agriculture Edmonton/Reunion Weekend/A. Robblee, W. Andrew
- '44 Commerce Edmonton/Reunion Weekend/R. Wilson, R. Purvis
- '44 Dentistry Class Vancouver/May/Alan Fee
- '44 Engineering Edmonton/Reunion Weekend/Harry Hole
- '44 Law Edmonton/Reunion Weekend/G. Amerongen, M. Howey
- '44 Pharmacy Edmonton/Reunion Weekend/Mary Bell, Jean Dawdy
- '48 Medicine (A) Edmonton/June 2-3/G. Brown, A. Gorman, G. Moonie
- '48 Medicine (B) Edmonton/June 2-3/J. Lipinski
- '54 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '54 Agriculture Bradley's Ranch, Yukon/July/Ron McCullough
- '54 Dentistry Edmonton/Reunion Weekend/Joseph Sikora
- '54 Education Edmonton/Reunion Weekend/Avis Little
- '54 Chemical Eng Edmonton/Reunion Weekend/Bruce Dafoe
- '54 Civil Eng Edmonton/Reunion Weekend/Lorne Dixon
- '54 Commerce Edmonton/Reunion Weekend/Valerie Fitzgerald
- '54 Petroleum Eng Radium Hot Springs Resort/May 17/Chester Allen
- '54 Home Economics Edmonton/Reunion Weekend/Rita O'Brien
- '54 Law Edmonton/Reunion Weekend/Edward Trott
- '54 Pharmacy Edmonton/Reunion Weekend/Dorothy Macquisten
- '59 Dip(Nu) Sept Harrison Hot Springs/Sept 9-11/Carol Duggan
- '64 Commerce Edmonton/Reunion Weekend/Peter Maxie
- '69 Graduating Class Edmonton/Reunion Weekend/Alumni Office
- '69 Agriculture Edmonton/Reunion Weekend/Reginald Norby
- '69 Arts Edmonton/Reunion Weekend/Margaret Skelley, Murray Sigler
- '69 Commerce Edmonton/Reunion Weekend/C. Brown, P. Miles
- '69 MEd (Admin) Edmonton/Reunion Weekend/Audrey Clark
- '69 Home Economics Edmonton/Reunion Weekend/Wendy Lomnes
- '69 Medicine Edmonton/Sept 22/Rick Anderson
- '69 Dip(Nu) Banff Centre/Sept 16-18/Gail Smith, Linda Tutty
- '69 Physical Education Jasper Park Lodge/Nov 11-13/Rutledge
- '74 Physiotherapy Edmonton/Reunion Weekend/Susan Muirhead
- '74-'94 Forestry Classes Edmonton/Reunion Weekend/Morley Christie
- '84 Law Edmonton/Sept 16,17,18/Madelaine Wessel
- '84 Mech Eng Links Golf and Country Club/May 28/Scott McEachern
- '84 Medicine Kananaskis/July 22-24/Ward Flemons
- '89 Physical Education Westridge Park Lodge/May 21-22/Kim Backs

Other Reunions:

Physical Education & Recreation, Current and Former Staff and Graduate Students Victoria, BC/August 9 & 10/Pat Bates,
2nd Floor Kelsey, Lister Hall 1983-84 Edmonton/July/Doug Boivin

Some of the locations and dates are tentative. Should you require information about the reunions noted, or if you wish to organize a reunion for a class or group not listed, please contact Coleen Graham in the Office of Alumni Affairs.

In Edmonton, phone (403) 492-4523.

Toll-free in Canada: 1-800-661-2593.

'34

Morley Hodgson, MD, recently celebrated his 90th birthday with daughter **Wendy Anne Skinner (Hodgson)**, '67 BEd, and her husband **Nick Skinner**, '63 PhD, '71 PhD, in London, Ontario. "Doc" Hodgson practised in Alberta for more than 35 years, first in Donalda then in the Claresholm-Stavely area, where he was beloved by several generations of patients. In 1980 he moved to London with his wife Evelyn, who passed away in 1987.

'36

Allen Conroy, MD, lives in Novato, California, which is in Marin County, just over the Golden Gate Bridge from San Francisco. He reports that he and his wife Louise keep busy with two of their favorite hobbies: gardening and square

dancing. In recent years Allen has taught English as a second language to both American and foreign-born students. Allen is eager for news on any upcoming reunions for the medical class of '36.

'40

Neil Davidson, LLB, was honored twice in 1993, with the Georges A. Goyer Q.C. Memorial Award for Distinguished Service from the B.C. branch of the Canadian Bar Association, and with a Canada Confederation Medal. He retired from his law practice in 1988 and currently lives in Vernon, B.C.

'42

Gerdine McPhee (Rowan), BSc(HEC), daughter of the late Dr William Rowan, recently moved from Victoria to Gibsons, B.C.

Ron Phillips, BSc(Eng), has recently moved and reports he is enjoying his new home in "friendly" Prince George, B.C. "Enjoy living in a city where there is some 'life,'" he writes. "Enjoy my computer . . . no time to get bored!"

'43

Edythe Markstad-Buchanan, Dip(Nu), '44 BSc(Nu), was recently recognized for her contribution to the U of A Hospitals through her induction onto the UAH's Honor Wall. Edythe began her nursing career in 1944 and was instrumental in developing the Hospitals' first staff health service department. When she retired after 42 years of service in 1986, Edythe was administrator of the Health Sciences Clinics.

Margaret Walker (MacLeod), BA, '46 BEd, reports that in 1993 she celebrated her 50th anniversary of graduation from the U of A, along with the publication of her second novel, *What If The Gift Horse Smiles?* (Samanpeter Publications, Edmonton). She is also the author of *Come Down From Yonder Mountain*, published by Longman's in 1962. Margaret reports that she made her print debut in the *Gateway* at the encouragement of the celebrated U of A English professor F.M. Salter. "Like most of his

old students I still miss him." She reports that she has "a weakness for mountains" and recently made a walking tour of the Pyrenees.

'47

Thomas Baker, BEd, '49 MEd, '74 LLD (Honorary), frequently visits the students of T.D. Baker Junior High School in Edmonton, which was named in his honor four years ago. Tom taught in Edmonton Public Schools from 1940 until 1955, when he became a principal and then deputy superintendent. He retired from that position in 1971 and received the Sir Frederick Haultain Prize for contributions to the humanities in 1989.

'50

Richard Taylor, BSc, '52 MSc, '91 LLD (Honorary), was recently awarded an honorary degree from the U of Lethbridge for his discoveries related to the quark model of particle physics. In 1990 Dick, who was born and raised in Medicine Hat, became the first Canadian to win the Nobel Prize for physics.

'51

Albert Catonio, LLB, '50 BA served 24 years as a judge of the Provincial Court of Alberta in the youth and family division before recently retiring to Kelowna, B.C. He practised law in Edson, Alberta for 17 years before his appointment to the bench in 1970. Among his achievements on the bench was chairing the Commission on Foster Care in 1971. He reports that he and his wife have a winter home in the Dominican Republic and that they "have been immersed in Spanish classes for several years to better enjoy our winter home and our granddaughter Camila."

Donald Brinton, BSc(Ag), is the new chairman of the board of AltaWest Television, which has applied for broadcast licenses to serve Calgary, Edmonton, Red Deer and Lethbridge. Don is the former president of Can West Broadcasting and Can West Pacific Television, as well as CKND Winnipeg, STV Regina and STV Saskatoon.

'52

James Newby, BSc(Eng), has been elected chairman of the Alberta Motor Association. He is a founding partner and principal in the engineering firm of Duthie, Newby, Weber and Associates, and has been a volunteer and a member of AMA's Edmonton regional board of directors for 14 years.

'53

Alan Bell, BA, '55 BEd, '67 MEd, and **Alice Bell (McGirr)**, '63 BEd, live in Edmonton and are active in many community organizations. In 1993 Alan was elected president of the Canadian Club of Edmonton and worshipful master of Norwood Masonic Lodge. He is also secretary treasurer of the Al Shamal Shrine Clown Unit, and performs as Ding Dong the clown. Alice is active in Delta Kappa Gamma, Daughters of the Nile, the Associated Canadian Travelers and the United Church's world outreach division. They recently enjoyed a trip to Hamilton, Ontario for the 100th anniversary celebrations of the Canadian Club.

'54

Robert Margolis, DDS, retired recently from his position as associate professor of pediatric dentistry at the U of A. His 30-year career in the Faculty of Dentistry was recognized in 1992 with a 75th Anniversary Certificate, and in 1993 his colleagues awarded him the W.W. Wood Award for excellence in teaching.

'57

Norman Gish, BA, will oversee investment activities in the People's Republic of China and South East Asia for Emergo Canada Limited. Norman is a former resident of Hong Kong and former president of North Canadian Oils. He will be located in Beijing. **Alan Robison, BSc(Pharm)**, gave the commencement address at the U of Texas Graduate School of Biomedical Sciences in 1993. The former chair of the Department of Pharmacology at the medical school of the University of Texas - Houston, Alan was



University of Alberta
Alumni Association

Salute to Volunteers



Ever since she moved to Toronto in 1942, **Jessie Heath**, '38 BA, has been involved with the U of A's Toronto Alumni Branch. For over 40 years, she and her husband Fred, '38 BSc(Eng), have volunteered their time as branch presidents (Fred in the early 1950s and Jessie in 1964) and as the branch's registrar, a position they still hold today. They have updated and found thousands of addresses of missing alumni in the Toronto area. "It has been a privilege for me to work with so many dedicated people over the years, both here in Toronto and at the University," says Jessie, who enjoys "having met so many people and staying in touch with branch event participants."

Volunteers are the heart of your Association

recently elected secretary of the Houston Philosophical Society. "The whole idea of retiring early was to be able to devote more time to history and philosophy, and I'm doing that," he reports.

Harry Schaefer, BCom, recently became a member of the board of directors of Crestar

Energy. The chairman of the board of TransAlta Corporation, TransAlta Utilities Corporation and TransAlta Energy Corporation, he joined the TransAlta Group in 1963.

'60

James Lepp, BSc(Eng), has been named president and

director of Alta Steel. Formerly a branch of Stelco Inc., Alta Steel is located on the eastern edge of Edmonton in Strathcona County.

'61

Dorothy Gardner (Cowan), BSc(Eng), a secondary school teacher in Kamloops, reports

that she has enjoyed a 30-year teaching career in B.C.

William Robertson, BSc(Eng), was recently promoted from vice-president, metal production, to senior vice-president and chief operating officer of Cominco Ltd. He has worked for Cominco for 32 years, and is responsible for the compa-

In Memoriam

The Alumni Association has noted with sorrow the passing of the following graduates:

Eva Annie McKittrick '22 BSc, of Edmonton in December 1993

Darrel Adrien Hansen '28 BSc(Eng), of Calgary in November 1993

Sidney Melville Ross '28 Dip(Pharm), of Calgary in August 1993

Inger Katherine Hale (Rills) '29 BSc(HEC), '59 BEd, of Calgary in January 1994

Kathryn Margaret Holloway (Bowman) '29 Dip(Nu), of Surrey, B.C. in December 1993

Evelyn Augusta Willison '29 BA, '57 BEd, of Calgary in May 1993

Mary Ross Ellingson '30 BA, of Evansville, Indiana in December 1993

Minnie Alice Melech (Korczynski) '32 BSc, of Calgary in July 1993

William Godlib Siebrasse '33 BSc(Eng), of Montreal in November 1993

James Graham Dale '34 BSc(Eng), of Edmonton in November 1993

Kenneth Rosny Ford '34 BSc(Eng), of Edmonton in December 1993

Owen Allister Kelly '34 BA, '40 MA, of Calgary in February 1994

Walter Stephen Korek '35 BSc, '47 BEd, of Calgary in April 1993

Edward Archie McLeod '35 BSc(Pharm), of Calgary in January 1994

Alvin Grant Sanders '35 Dip(Pharm), of Calgary in February 1994

Helen Amy Thurston '37 BA, of Calgary in January 1994

Thomas Harvey Armitage '38 MD, of Burnaby, B.C. in March 1993

David Earl Bickell '38 BA, of Calgary in February 1994

Kenneth Leslie Steeves '39 BSc(Eng), of Nanoose Bay, B.C. in October 1993

Robert James Burton '40 BA, of Edmonton in November 1993

Bessie Leckie Lambert (Dunlop) '40 MA, of Edmonton in December 1993

Helen Mary Oak (Towers) '41 BA, '43 BEd, of Edmonton in December 1993

James Rudko '41 BA, '42 LLB, of Kelowna, B.C. in February 1994

John Stewart Fife '42 BSc(Eng), of Calgary in January 1994

Norma Erdine Trussler (Coburn) '42 BSc(HEC), of Victoria in August 1993

William Charles Gordon '43 BSc(Ag), of Edmonton in January 1994

Jean Binnie MacDonald '44 Dip(Nu), of St. Albert, Alberta in December 1993

Margaret Yvonne Moxam (Rorke) '44 BA, '61 LLB, of Lake Havasu City, Arizona in December 1993

Gerard Joseph Breton '45 MD, of North Battleford, Saskatchewan in May 1993

Margaret Josephine Grant (Metcalfe) '45 Dip(Nu), of Lethbridge in October 1993

Margaret Gwendolyn Julian (Hunt) '46 BEd, of Strathmore, Alberta in June 1993

William Terrance Armstrong '47 BSc, '49 MD, of Langley, B.C. in January 1993

William Harvey Beecroft '47 BSc, of Calgary in January 1994

Robert Paradny '47 BSc, '49 MD, of New York in November 1993

Francis Thomas Byrne '48 BA, '49 LLB, of Lethbridge, Alberta in January 1994

William Henry Coull '49 BEd, '56 MEd, of Edmonton in April 1993

Sverre Swerre Malmø '49 Dip(Ed), '51 BEd, of Camrose, Alberta in November 1993

William John Moran '49 BSc(Ag), of Victoria, in January 1994

Allan Edward Faunt '50 BSc(Eng), of Trail, B.C. in September 1993

Ivan Granville Finlay '50 BSc(Eng), of Edmonton in December 1993

Harold Wright Gildden '50 BSc(Ag), of Calgary in November 1993

Douglas Wilkinson Logan '50 BSc, of Christchurch, New Zealand in January 1994

Eleanor Ruth Pow (Cooke) '50 Dip(Ed), of Calgary in April 1993

Laura Jean Dawe (Hodgkinson) '51 Dip(Ed), '70 BEd, '83 Dip(Ed), of Red Deer, Alberta in June 1993

Edward Lloyd Morris '51 BSc(Eng), of Shelburne, Nova Scotia in March 1992

William Tacluk '51 BSc(Eng), of Edmonton in December 1993

Alan Robert Anderson '52 BSc(Ag), '53 BEd, of Minneapolis, Minnesota in December 1992

Hinds Agnew '53 BSc, of Fullerton, California in April 1993

Agnes Kathleen McGregor '54 BEd, of Edmonton in February 1994

Alexander Shamchuk '54 BA, '60 LLB, of Edmonton in December 1993

John Gort '55 MD, of Edmonton in November 1993

George Kan Nakamura '55 BA, '66 BEd, '76

MEd, of Edmonton in November 1993

Raymond Maurice Probst '55 BSc, of Calgary in November 1993

John Leo Aaserud '56 BEd, '63 MEd, of Edmonton in November 1993

Frances Marie Hoyer (Sissons) '56 BA, of Diamond City, Alberta in January 1994

Anthony Eugene Koch '57 BA, '58 LLB, of Edmonton in November 1993

Florence Evelyn Farbridge '58 Dip(Ed), of Victoria in February 1994

Hazel Cecelia Hopps (Wiltzen) '58 Dip(Ed), of Athabasca, Alberta in January 1994

Lawrence Edward Kelly '58 BEd, of Edmonton in December 1993

Patricia Ella Coulter (Bramley-Moore) '59 BSc(Nu), of Saskatoon, Saskatchewan in July 1993

Donald Lelf Erickson '59 BCom, of Calgary in January 1994

Jean Elizabeth de Roan (Felton) '59 Dip(Nu), of Richmond, B.C. in November 1993

Lillian Sophia Hartzheim '60 Dip(PHNU), of Calgary in December 1993

Edward George Hrdlicka '60 BSc(Eng), of Edmonton in November 1993

Maurice Edward Izzard '60 BEd, of King City, Ontario in February 1993

Frances Marie Spasiuk (Rarog) '60 BEd, of Glendon, Alberta in February 1994

Wilfred Joseph Loisele '62 BEd, of McLennan, Alberta in December 1993

Frances Helen Billda (Larmour) '64 BSc(HEC), of Sherwood Park, Alberta in March 1993

Jerry Frank Sirdar '64 BSc, '69 DDS, of Edmonton in November 1993

Patricia Diane Stewart (Thurston) '64 BEd, of Lethbridge, Alberta in December 1993

William Murray Saunders '65 BSc(Eng), '71 PhD, '74 MD, of Poway, California in January 1994

Jack Stewart Lewis '66 MA, '70 PhD, of Sudbury, Ontario in August 1993

Margaret Jean Overbo (Kelly) '66 BEd, of Edmonton in January 1994

Melba Sadler '66 BFA, '66 Dip(Ed), of Edmonton in November 1993

Gisele Marie Chritchley (LaVergne) '67 MA, of Penticton, B.C. in November 1993

Kurt Fritz Turner '67 BEd, '71 Dip(Ed), '76 MEd, of Edmonton in December 1993

Donald Forrester Dewar '68 BSc, of Edmonton in January 1994

Florence Margaret Ingram '68 BEd, of Tofield, Alberta in November 1993

James Ronald Hawkins '69 BSc(Eng), of San Francisco, California in December 1993

Glenna Wideman (Wiens) '69 BSc(Nu), of Tofield, Alberta in December 1993

Terry Thomas Lock '70 BA, '73 LLB, of Grande Prairie, Alberta in November 1993

Richard Earl Horton '71 BEd, of Westlock, Alberta in February 1994

Wulf-Delzer Reinhardt '71 BSc(Ag), of Mayerthorpe, Alberta in February 1994

Sem Frederick Field '72 BA, '76 Dip(Ed), '85 BEd, '88 LLB, of Edmonton in December 1993

Judith Ann Klaczek (Patmore) '72 Dip(Nu), '92 BSc(Nu), of Sherwood Park, Alberta in March 1994

Irene Kucy (Macur) '72 BEd, of Sherwood Park, Alberta in December 1993

Eustace Wychem Ferrance '73 MEd, of Edmonton in December 1993

Herbert Erwin Link '76 BSc, '78 DDS, of Edmonton in January 1994

Darrell Ashley Osbaldeston '77 BEd, of Sherwood Park, Alberta in December 1993

James Erwin Nolan '79 BSc, '88 PhD, of Edmonton in December 1993

Helen Louise Tiedemann (Klassen) '80 BEd, of Tofield, Alberta in December 1993

Mary Helene Woodward '80 BSc(Nu), '87 MEd, of St. Albert, Alberta in January 1994

Stephen William Yorke '80 BFA, of Toronto in September 1993

Barry Warren Kaiser '81 BFA, of New York in February 1994

Ann Teresa Spillios '83 LLB, of Edmonton in October 1993

Valerie Jubinville '85 BEd, of Fort Kent, Alberta in December 1992

Diana Europa Snider '86 BA, of Edmonton in October 1993

Peter Richard Beach '88 BCom, of Edmonton in November 1993

Ronald Banister '89 LLD(Honorary), of Nassau, Bahamas in December 1993

Hiltrud Lillian Alte '92 MEd, of Edmonton in January 1994

Kevin Francis Delany '92 BCom, of Edmonton in November 1993

Angela Teresa Kilparchuk '92 BEd, of Edmonton in January 1994

Tammy-Jo Bowman '93 BEd, of Edmonton in December 1993

ny's world-wide mining and metallurgical operations.

'62

Harvie Andre, BSc(Eng), '66 PhD, former government leader in the House of Commons and head of Canada Post, has been named to the board of directors of Suncor Inc.

'63

Robert Young, LLB, is a new member of the boards of directors of Loram Corporation and Interman Holdings Ltd. He is a director of Western Gas Marketing Limited, Alberta Natural Gas Company, and a past president of the Calgary Exhibition and Stampede. He practised law with the Calgary firm Walsh Young from 1963 to 1990.

'64

Raymond Fast, MEd, retired at the end of 1993 from his position as director of education in Saskatoon. He is now the principal consultant of Fast and Associates, an international management consulting firm that has projects underway in Africa and Asia.

Hal Neldner, BCom, is the president and chief executive officer of TELUS Corporation and deputy chairman of AGT. He was recently appointed to the board of directors of Suncor Inc.

'65

Terrence Cockrall, LLB, '62 BCom, received the honorary title of Queen's Counsel recently from the Alberta government.

Wilmer Fawcett, BMus, and **Lucy Fawcett (Hominuke)**, BMus, '68 BEd, both have active music careers. Wilmer attended Julliard and Indiana U after leaving the U of A, and has been principal bass of the CBC Vancouver Orchestra and associate principal bass of the Vancouver Symphony Orchestra for many years. He is a member of the salon music ensemble Viveza, which has three best-selling CD's and recently toured in Korea and the United States. Lucy pursued graduate studies in education at Indiana U after graduation, later teaching in Surrey, B.C. and presenting children's programs for the Fraser Valley Regional Library Board. She currently teaches piano to children and beginning students.

Carlyle Thompson, BSc(Eng), has become president of Murphy Oil Company in Calgary. Previously the vice-president, production, he has been with the company since 1976.

'66

Neil Clarke, BA, '70 MEd, '77 PhD, is the founding president of Northlands College in La

Ronge, Saskatchewan and the former president of Fairview College in Fairview, Alberta. He was recently appointed head of the Palliser Institute in Moose Jaw, Saskatchewan, an applied science and technology institute.

Ross Harris, BCom, received the Medal of Honour from the Alberta Medical Association, the AMA's highest honor awarded to non-physicians. Ross, an Edmonton accountant, has served with the U of A Hospitals' board for nine years, becoming chairman in 1990.

Jan Horejsi, BSc, recently became a member of the board of directors of Palliser Energy Inc. He is a geologist with 26 years of experience in the Canadian oil and gas industry, and currently serves as vice-president of Canadian exploration with Ranger Oil.

Russell Schnell, BSc, is director of the Mauna Loa Observatory in Hilo, Hawaii, where researchers first discovered rising carbon dioxide concentrations in the earth's atmosphere (known as the greenhouse effect) and rising levels of aerosol fluorocarbons

which contribute to ozone hole formation in the atmosphere. He reports that he attended the St. Stephen's reunion on campus last fall and was impressed with the number of new buildings since he last visited the U of A several years ago.

'67

Gwyn Morgan, BSc(Eng), is now the president and chief executive officer of the Alberta Energy Company, where he has worked for 18 years.

'68

Val Mirosh, BSc(Eng), '73 LLB, is senior vice-president law of the Alberta Natural Gas Company. He is a former senior partner of the law firm Macleod Dixon.

'69

Paul LaChambre, BCom, '72 LLB, was among 68 Alberta lawyers who recently received the title of Queen's Counsel from the Alberta government.

'70

Robert Davidson, LLB, '69 BA,

New Distinguished Service Award Goes to U of A Law Grads

Three University alumni, including the late **Sheldon Chumir**, '62 BSc, '63 LLB, are the winners of a new award co-sponsored by the Law Society of Alberta and the Canadian Bar Association.

The Distinguished Service Award — the first of its kind — was presented posthumously to Chumir, a native Calgarian who was an Alberta MLA from 1986 until his death in January 1992. The founder of the Alberta Civil Liberties Association, he was a Rhodes Scholar and lectured on civil liberties at the U of Calgary law school.

The two others who won the award were **James Herbert Laycraft**, '51 LLB, and **Wilbur Bowker**, '30 BA, '32 LLB, '72 LLD (Honorary). Appointed chief justice of Alberta in 1985, Laycraft served on committees which rewrote the rules of court for Alberta and Nova Scotia. He also served on the committee that established the law society's self insurance program, the first such program in Canada.

Bowker, who was recognized for his distinguished career in legal education, was the dean of law at the U of A for 20 years and later served as director of the Law Reform Institute for seven years.

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recently received the honorary title of Queen's Counsel from the government of Alberta. **Malcolm Hamilton**, BSc(Eng), recently became managing partner for the Canadian operations of Mercer Management Consulting as well as vice-president with the company's Toronto office. He is a director of the Council for Business and the Arts in Canada, and a director of ABC Canada, a national literary organization.

Frank Parrotta, BCom, is now executive vice-president, corporate development of TELUS Corporation, having served previously as chief financial officer for the company.

Gordon Salembier, LLB, '69 BA, is an Edmonton lawyer who received the honorary title of Queen's Counsel recently from the Alberta government.

'71

Charles Hilborn, LLB, '68 BSc, was named Queen's Counsel by the government of Alberta recently.

Robert Assaly, BSc, was recently awarded the honorary

title Queen's Counsel by the Alberta government.

John Delaroque, BEd, '85 MEd, has retired after 25 years with the Edmonton Public School Board, where he taught business education and computer courses at the senior high school level. He recently moved to Baptiste Lake, Alberta.

Walter Hoffmann, BEd, is an academic staff member on the NAIT board of governors.

Vera Radyo, BSc, '74 MA, received the Public Service Award recently from the Vancouver Multicultural Society. It recognizes her 16 years of work as an advocate for refugees, immigrants and cultural minorities. Vera is a multicultural consultant with the United Way of the Lower Mainland in B.C.

'72

Havelock Madill, LLB, '68 BSc, was awarded the honorary title of Queen's Counsel recently by the Alberta government.

Leo Burgess, LLB, '67 BA, received the honorary title of Queen's Counsel recently from the Alberta government.

Frank Hui, BSc, '74 DDS, was in San Diego, California last July to receive the Academy of General Dentistry's Fellowship Award. Frank has a dentistry practice in Edmonton, where he serves on the board of trustees for the Edmonton Public Library and is active in the Hong Kong Canada Business Association.

Anna Miller (Spady), BEd, '76 Dip(Ed), was named a semi-finalist at an International Society of Poets gathering in Washington, D.C. last August

that attracted 1500 poets from 41 different countries. In November of last year she was invited to become a charter lifetime member of the Society, and to serve on the Society's lifetime member advisory panel. She resides near Edberg, Alberta.

James Smith, BA, retired last year from Alberta Family and Social Services. He is keeping busy studying non-fiction writing and teaching English literacy through the Project Adult Literacy Society.

Thomas Walter, LLB, was recently given the honorary title of Queen's Counsel by the government of Alberta.

Barry Young, LLB, was one of 68 Alberta lawyers given the honorary title of Queen's Counsel recently by the Alberta government.

'73

Michael Elias, LLB, '70 BA, received the honorary title of Queen's Counsel recently from the government of Alberta.

Timothy Christian, BA, the dean of the Faculty of Law at the U of A, was recently awarded the honorary title of Queen's Counsel by the Alberta Government.

Ross Purdy, BSc(Ag), has been appointed area manager for the Bank of Montreal in Lacombe, Alberta.

James Robb, LLB, was recently given the honorary title of Queen's Counsel by the government of Alberta.

Ian Wight, MSc, began an appointment in January as assistant professor in the city planning department of the Faculty of Architecture at the U of Manitoba. "Involves moving from Victoria to

Winnipeg in mid-winter!"

'74

Roderick Wacowich, LLB, '70 BA, was recently appointed Queen's Counsel by the government of Alberta.

Christopher Somerville, BSc, '76 MSc, '78 PhD, was awarded an honorary DSc from Queen's U last fall. A former faculty member at Michigan State U and in the genetics department at the U of A, he recently became the director of the Carnegie Institute at Stanford U. His research is credited with having revolutionized plant biology.

David Margolus, LLB, '71 BA, has been given the honorary title of Queen's Counsel by the government of Alberta.

David Stratton, LLB, '73 BA, has received the honorary title of Queen's Counsel from the Alberta government.

'75

Eric Breikreutz, BA, is the new vice-president, human resources for AGT.

Brian Caldwell, MEd, '77 PhD, has worked for the U of Melbourne since 1990, and was appointed to the first chair in education at that university last year. Previously, he was the dean of education at the U of Tasmania. He reports that his major field of interest has been the decentralization of management in education. **Frederick Day**, LLB, '72 BA, received the honorary title of Queen's Counsel recently from the government of Alberta.

'76

Douglas Stollery, LLB, was recently awarded the honorary title Queen's Counsel by the government of Alberta.

'77

Cecil Abrahams, PhD, became vice-president academic at Acadia U in Wolfville, Nova Scotia last July. His previous position was as dean of humanities at Brock U.

Shirley Rostad (Tien), BCom, is a chartered accountant who recently joined the board of regents at Augustana U College in Camrose, Alberta.

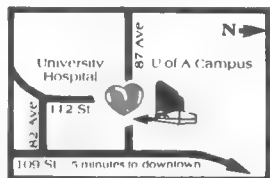
Thomas Cooke, LLB, '74 BCom, recently received the honorary title of Queen's

In the of the University

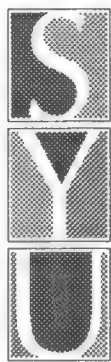
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Province		Postal code		Present occupation		Self-employed ☐ no ☐ yes			
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Signature of Applicant Date Signature of Co-applicant if additional card required Date

Counsel from the Alberta government.

'78

David Marchak, BSc(Eng), works in Kuala Lumpur for Esso Production Malaysia Inc., where he is the manager of exploration and production planning.

Anne de Villars, LLB, was recently awarded the honorary title of Queen's Counsel by the government of Alberta.

'79

David Barry, BA, is executive director of the Alberta Home Builders' Association in Edmonton.

Maura Hamill, BSc(HEC), earned a diploma in public relations from Mount Royal College in Calgary after leaving the U of A, and is currently project coordinator in the communications department of the Calgary Convention and Visitors' Bureau.

Jessie Hislop, BA, recently became a trade commissioner at the Canadian Consulate General in Milan, Italy following "three great years" at the embassy in Oslo, Norway. She reports that she would welcome calls from other U of A grads.

Gregory Koper, BA, lives in Sherwood Park, Alberta and works in the real estate field. "Really enjoying it," he reports of his work.

Brian Napier, BSc(Eng), who lives in St. Albert, Alberta, has been appointed chairman and chief executive officer of the Canadian Business Telecommunications Alliance. The director of the Alberta Government's Telecommunications Service Branch, he is the first

chairman in the Alliance's 32-year history to be based outside of Toronto.

Donald Philippon, PhD, was recently appointed deputy minister of health for the Government of Alberta. He lives in Stony Plain, Alberta.

Diane Ruud, Dip(DentHyg), '86 BSc(Dent), '88 DDS, completed a diploma in orthodontics last year at the U of Toronto. She recently returned to Edmonton and is now associated with Empire Orthodontics Associates.

David Hancock, LLB, '75 BA, is one of several U of A law alumni recently named Queen's Counsel by the Alberta government.

Roy Carter, '79 LLB, '76 BA, received the honorary title of Queen's Counsel recently from the Alberta government.

'80

Dennis Denis, BA, '83 LLB, is a recent appointee to the Edmonton Public Library's board of directors.

'81

Stanford Blade, BSc, is a post-doctoral scientist with the International Institute of Tropical Agriculture in Nigeria, working on increased food production in the savanna of West Africa. "I will always be grateful to the U of A for providing the scientific foundation for a young Alberta farm boy to progress through a series of exciting international research experiences," he writes.

George Gundesen, BSc(Eng), reports that he just moved back to Calgary from the West Coast with his wife and three daughters. George says of the

West Coast, "A nice place to visit but . . ."

Doreen Rockliff, BSc(HEC), '84 MSc, has joined the staff of the Textile Conservation Centre, Hampton Court Palace, as a lecturer in textile conservation and also as first-year coordinator.

John Wright, BSc(Eng), was recently appointed executive vice-president and chief operating officer of Morgan Hydrocarbons Inc. in Calgary. He has been with the company since 1987, and most recently held the position of vice-president, production.

'82

Jennifer Enta, BSc, '85 Cert(Sc), works as a software developer for PanCanadian Petroleum in Calgary.

Tema Frank (Adele), BCom, reports that she now lives in Toronto with her husband and baby boy after returning from a sabbatical year in the Netherlands. Tema works for Frank Communications and is currently writing a book about the best employers for women in Canada. She urges anyone with information about such employers to fax her at (416) 591-7202 or contact her through the Office of Alumni Affairs.

'83

Donna Goulet, BEd, teaches grade four at Duggan Elementary in Edmonton. She reports that her 36-year career with the Edmonton Public School Board has taken place at only two Edmonton schools: Duggan and Hazeldean.

Terence Kewin, BA, and **Andrea Kewin (Smith)**, '84 BSc(Speech), live in Brampton, Ontario. Terry manages his own real estate business and Andrea works as a speech language pathologist for the Peel Board of Education. They have three young children.

Norman Nendsa, BSc, became senior mine geologist recently at Royal Oak Mines' Giant Mine in Yellowknife, Northwest Territories. "Busy with wife and three children," he reports.

Marcus Schwabe, BSc, '85 BEd, who has been the director of alumni and church relations at Augustana U College in Camrose, Alberta for five

years, recently took on the responsibility for conducting fund-raising activities among former students.

Ashley Sikand, BMS, '85 MD, recently completed a residency (otolaryngology - head and neck surgery) at the U of British Columbia recently and currently holds a neurotology and skull-base surgery fellowship at Stanford U Medical Center in Palo Alto, California. He reports that his plans for the future include further fellowship training in Zurich, Switzerland. "I recently celebrated my first wedding anniversary . . . we are enjoying the activities in the San Francisco Bay Area and would like to say hello to my friends in Alberta."

'84

Herbert De Waal, BSc, reports that he works as a grip in the film industry in Vancouver.

Norman Dirr, BCom, recently joined the Edmonton accounting firm of Mowbrey and Associates.

Lila Fahlman, PhD, reports a "very busy year" in 1993. She took part in a Canadian College of Teachers conference for educators from across Canada, and became chair of the board of directors of the World Interfaith Education Association. Founding president of the Canadian Council of Muslim Women, Lila is now the founding president of the World Council of Muslim Women, working for education, peace and protection. Last summer, she was the Alberta coordinator of Peace Bus '93, an interfaith youth camp that carried 50 teens across Canada to their final meeting place in Golden Lake, near Ottawa. "Response from the young participants was overwhelming," she reports.

'85

Cal Caldwell, '85 BA, '93 BSc(Eng), works as a junior electrical engineer for Husky Oil Operations. He and his wife live in Rainbow Lake, Alberta.

Sheila McMurray (Fisher), BEd, reports that she taught junior high school for six years before marrying and having two children. "Have decided to stay home full time with my



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precious daughters. Moving to a farm in Airdrie."

John Van Damme, PhD, writes from St. Michael's Parish in Bright's Cove, Ontario that he has been elected dean of Sarnia, Ontario and a member of the Senate of the Bishop in the Government of the Diocese of London, Ontario.

'87

Karin Fuog (Capri), BA, '84 MA, and **Eric Fuog**, BSc, recently moved to Connecticut with their son, who was born in June 1993, in order for Eric to accept a pharmaceutical research job with Pfizer Inc. At the time they moved, Karin wrote that she was still pursuing "the elusive PhD in English" and hoped to soon finish and find a teaching job at the college level.

Loretta Lueloff (Lipton), BEd, lives in Burlington, Ontario and has taught high school English, family studies and computers and business for the past eight years. "Love it — run all ski programs in school and chaperon a lot of dances," she reports.

Anthony Morris, BA, taught English as a Second Language for two years in Japan and now studies Japanese part-time at UBC.

Deborah Webb (Rowe), BSc, '93 MSc, and **Darcy Webb**, '90 BCom, live in Edmonton. Deborah teaches at NAIT and works for Alberta Environment, and Darcy is a financial planner with Investors Group.

'88

Del Elgersma, BA, reports that he is a lawyer with a small Vancouver-area firm.

Carolyn Johnston, BA, is working toward a PhD in history at the U of California at Irvine. She completed an MA in history at Queen's U in 1990.

'89

Rod Armstrong, BEd, teaches English at Cardinal Leger High School in the Toronto area and recently completed research in administration at the U of Toronto.

Janet Erhardt (Rae), BCom, who was married in July 1993, is based in Edmonton as a northern Alberta sales repre-

sentative for Primo Foods.

Loretta Gerald, BA, reported last November that she had been employed as a family school liaison worker but was looking for work after being laid off.

Loren Labonte (Gorgichuk), BCom, and **David Labonte**, '90 BCom, live in Edmonton. David works in human resources at Alberta Hospital, Ponoka and Loren is a financial analyst at CAE (formerly North West Industries).

Thomas Oddie, MSc, has been promoted to environment and safety manager for the Gulf of Mexico region for Kerr-McGee and will be moving to Lafayette Louisiana. Tom recently got married in the Virgin Islands, and reports, "My wife and I look forward to the warm weather, Cajun food and friendly people."

Sheldon Weatherby, BEd, has been elected to a two-year term as vice-president of the professional development department of the Instrument Society of America, the international organization for measurement and control professionals. He is assistant program head liaison for the instrumentation department at NAIT.

'90

Christopher Brown, BCom, graduated from Osgoode Hall Law School at York U last June and is now articling with the Calgary law firm Bennett Jones Verchere.

Bob Friedland, LLB, was elected to the city council of Victoria, B.C. in a municipal election last November. **Thomas Greidanus**, BSc, and **Yvonne Greidanus**, '92 BSc(OT), live in Philadelphia, where Tom attends Jefferson Medical College. Yvonne works with spinal cord injuries at McGee Rehabilitation Hospital.

Barbara Johnston, BA, graduated from Queen's U law school last spring and is articling with the Calgary law firm Milner Fenerty.

Hongwei Yu, MSc, completed a PhD at the U of Calgary and recently accepted a post-doctoral position at the U of Texas Health Center at San Antonio. He reports having had a "hot and green" Christ-

mas this year. "We missed the snow we had in Edmonton."

'91

David Luck, BEd, has been teaching junior high in Fort Chipewyan, Alberta for the past two years. He reports that he is working toward his MEd in educational foundations.

Guy Major, BSc, works for Northern Telecom as a design engineer at the Wireless Development Centre in Calgary. **Deborah Perkins**, BA, and **James Romeril**, BCom, plan to get married in July 1994 in Sherwood Park, Alberta. Jim currently lives in Calgary, where he works for Koch Oil Company as a market and trading analyst in the marketing department. He reports that he also has a part-time contract with the NHL as an on-ice official and has worked two games in Calgary during the 1993-94 season. Debbie attends the U of Calgary, pursuing an after degree in education.

'92

Deanna Dunkle (Bolton), BSc(Nu), lives in Castor, Alberta and is a clinical nurse

at the Downtown Medical Centre in Stettler, Alberta.

Stephen Jaddock, BEd, teaches chemistry and the Ukrainian language to grades nine to twelve in Dauphin, Manitoba. "This is my first year of teaching after supply teaching for one year for Edmonton Public Schools," he reports.

Charles Morse, BA, has been named a member of the Harvard Law Review, one of only 40 of Harvard's 560 first-year law students chosen to work for the prestigious publication. **John Shredder**, LLB, '88 BA, recently opened an independent legal office in Edmonton. He is restricting his practice to matrimonial and family law matters.

'93

John Basey, MBA, was recently given the honorary title of Queen's Counsel by the government of Alberta.

Sheila McDonald, MA, is the new director of economic development for the economic development board of the town of Morinville, Alberta.

Lisa Mueller, BEd, teaches an elementary behavior modification class in Lac La Biche, Alberta. "I love it!"

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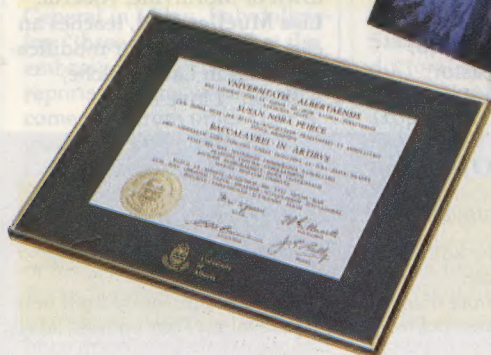
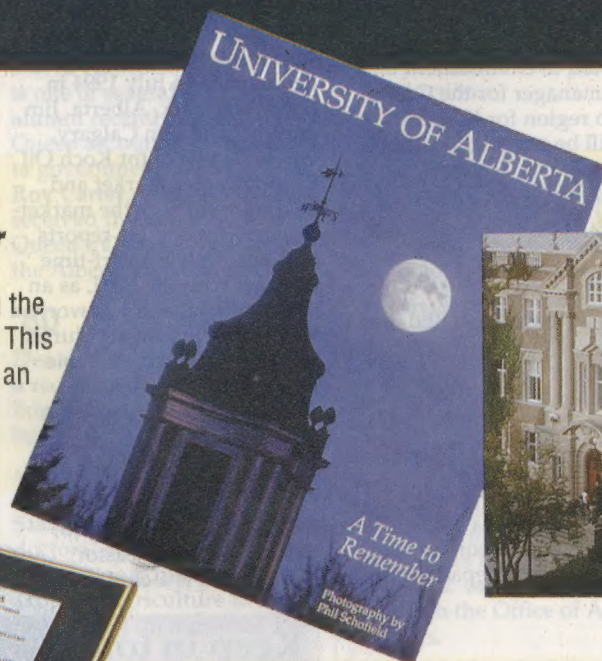
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